

1/97

FIG. 1

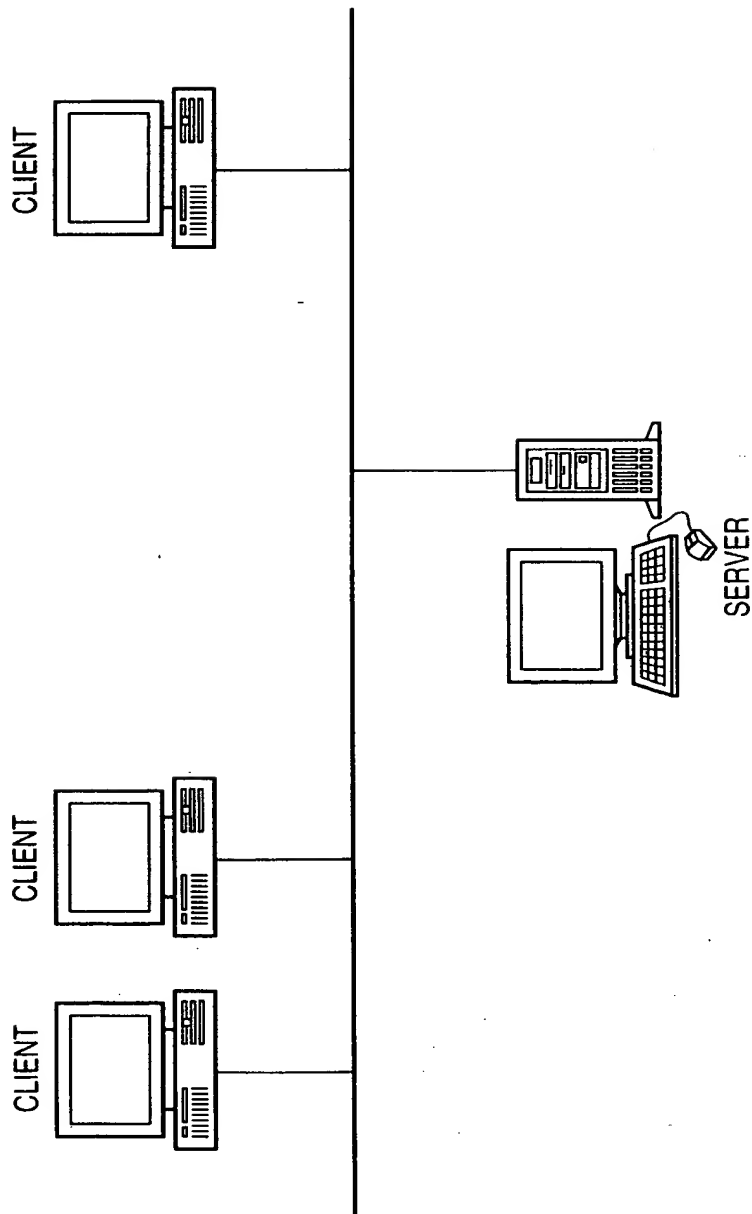


FIG. 2

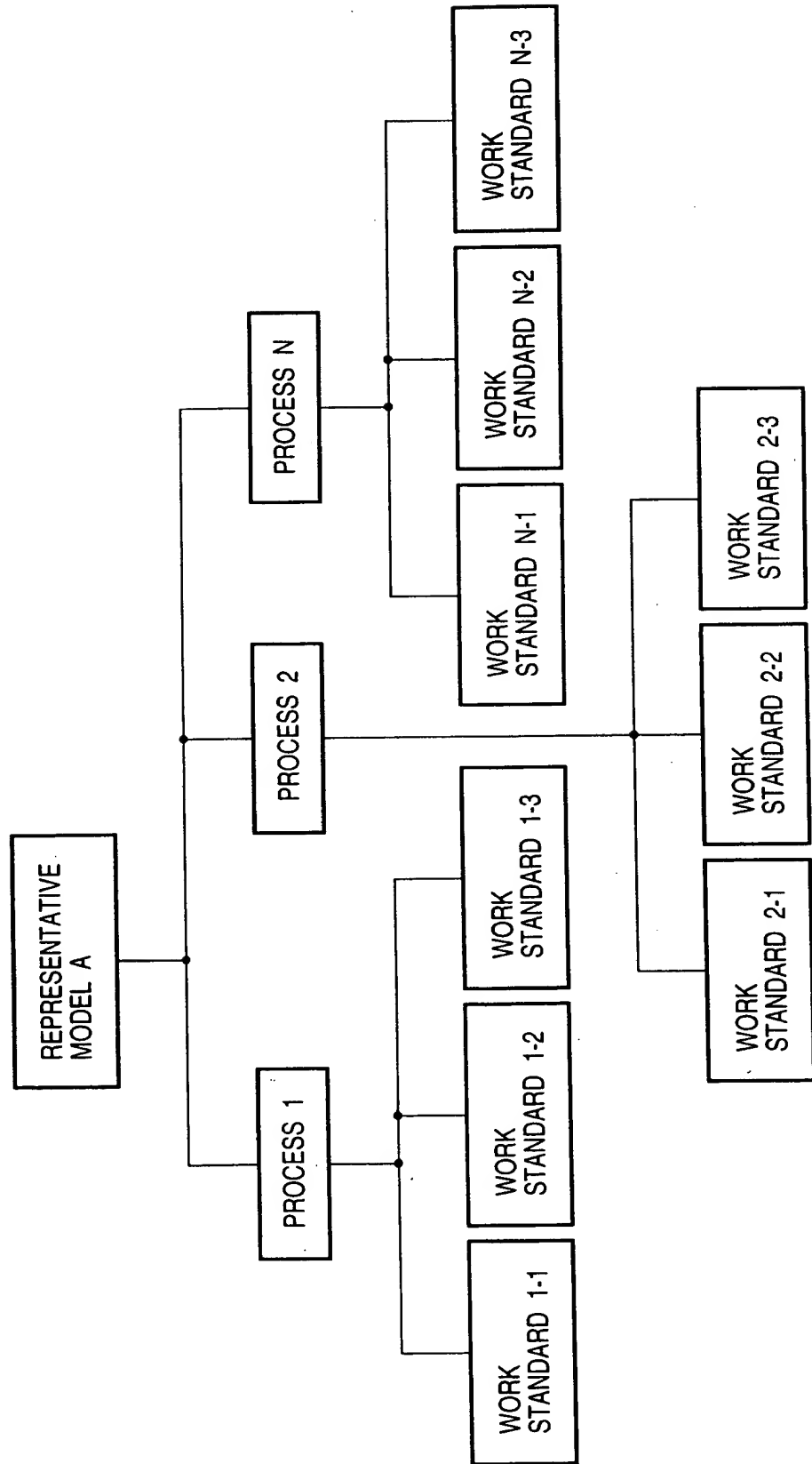


FIG. 3

3/97

WORK STANDARD 01 CREATION

☐ ☐ ☐

APPLIED

PART NUMBER	PART NAME	QUANTITY	PART NUMBER	PART NAME	QUANTITY
303	304	305			

TOOL / TREATMENT DEVICE / AUXILIARY MATERIAL

QUANTITY	CHECK ETC.
306	307
	308

No. WORK PROCEDURE No. NOTE / STANDARD ETC.

310

REVISION NUMBER	CONTENTS OF REVISION	DATE	PERSON IN CHARGE	APPROVE	WORK NAME
01	CREATED	1997/09/25			

MANAGEMENT NO.

FIG. 4

STRUCTURE OF MASTER FILE

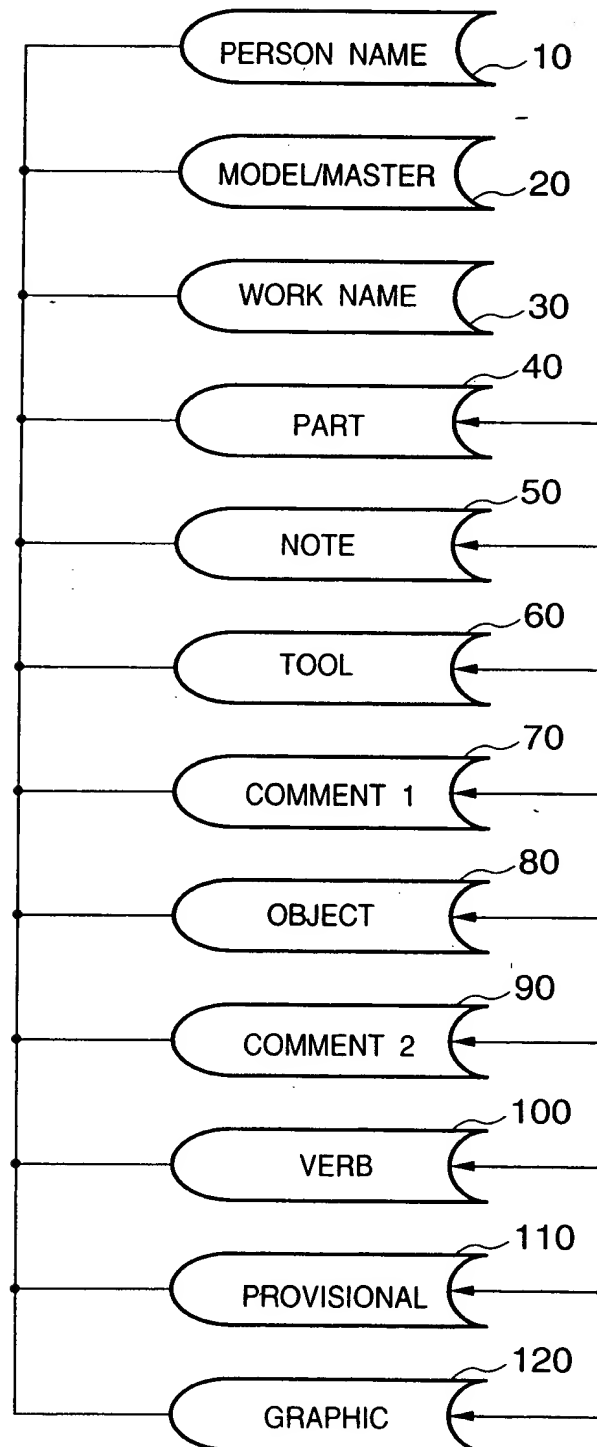


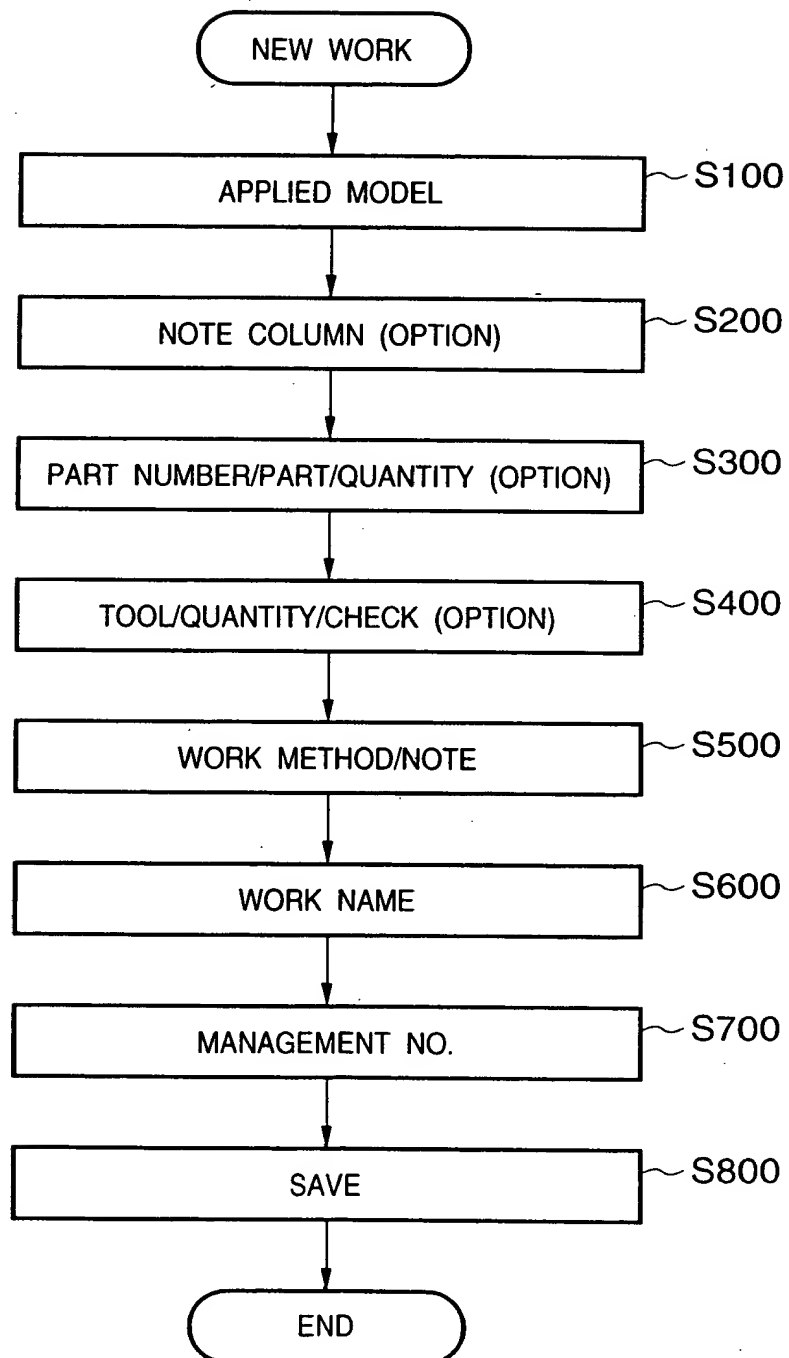
FIG. 5

FIG. 6

SELECTION OF APPLIED MODEL
LIST OF APPLIED MODELS
BJC-4200 SYSTEM
BJC-420J
BJC-420J (BLACK)
BJC-4300
BJC-430J
BJC-4200LX
A250 II Q
BJC-4200
OK
CANCEL

FIG. 7

WORK STANDARD 01 CREATION					<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>						
APPLIED		BJC-420J BJC-420J(BLACK) BJC-430J									
PART NUMBER		PART NAME		QUANTITY		PART NUMBER		PART NAME		QUANTITY	

302

FIG. 8

PART NUMBER	PART NAME	QUANTITY	PART NUMBER
PART			
000 - 0000 - 001	PART 001	▲	
000 - 0000 - 002	PART 002		
000 - 0000 - 003	PART 003		
001 - 0000 - 001	PART 101	▼	
001 - 0000 - 002	PART 102		
111 - 1111 - 001	PART 001		
A01 - 1234 - 001	TEST PART 0001		

FIG. 9

• WORK NAME

• CANDIDATES

- (SET ORIGINAL GLASS PROTECTIVE SHEET)
- (HOOK DEVELOPING RAIL RETURN SPRING)
- (HOOK DEVELOPING RAIL RETURN SPRING(AFTER))
- (SET ORIGINAL GLASS TABLE)
- (SET ORIGINAL TABLE PROTECTIVE SHEET)
- (CHECK NO TONER IN DEVELOPER)
- (CHECK ERROR IN DEVELOPER)
- (LOCK DEVELOPER)

A curved arrow points from the 'WORK NAME' input field to the first item in the 'CANDIDATES' list.

FIG. 10

• WORK NAME

• CANDIDATES

- (HOOK DEVELOPING RAIL RETURN SPRING)
- (HOOK DEVELOPING RAIL RETURN SPRING(AFTER))
- (CHECK NO TONER IN DEVELOPER)
- (CHECK ERROR IN DEVELOPER)
- (LOCK DEVELOPER)

FIG. 11

11/97

1100

WORK STANDARD SYSTEM

WORK NAME :

WORK METHOD :

(COMMENT 1)

(OBJECT)

(COMMENT 2)

(VERB)

00 *

01

1105a

1105b

1105

NOTE, STANDARD / REQUIRED QUALITY :

1106

1107

OK CANCEL

1108

12/97

FIG. 12

WORK STANDARD SYSTEM

WORK NAME :

WORK METHOD :

1201

1202

1105b

00 ※

01

The diagram shows a form with a header 'WORK STANDARD SYSTEM'. Below it are two labels: 'WORK NAME :' and 'WORK METHOD :'. Under 'WORK NAME :', there is a single-line input field labeled '1201'. Under 'WORK METHOD :', there is a multi-line input area labeled '1202'. At the bottom, there is a section labeled '1105b' containing two rows: the first row has the text '00 ※' and the second row has the text '01'.

FIG. 13

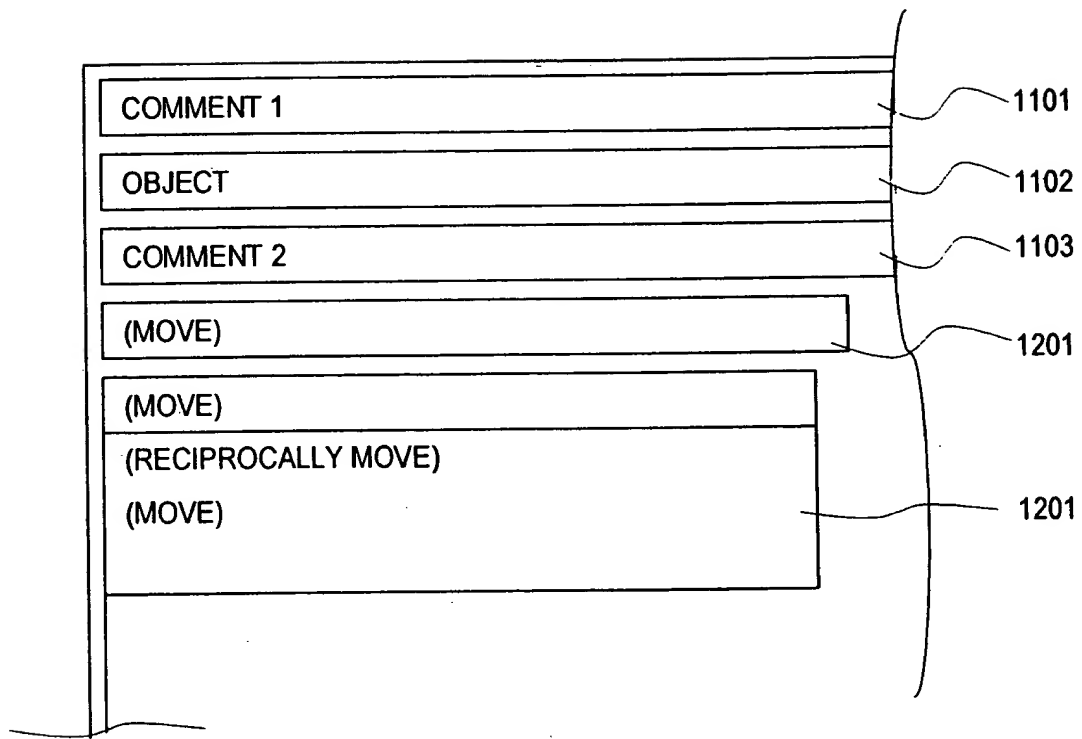


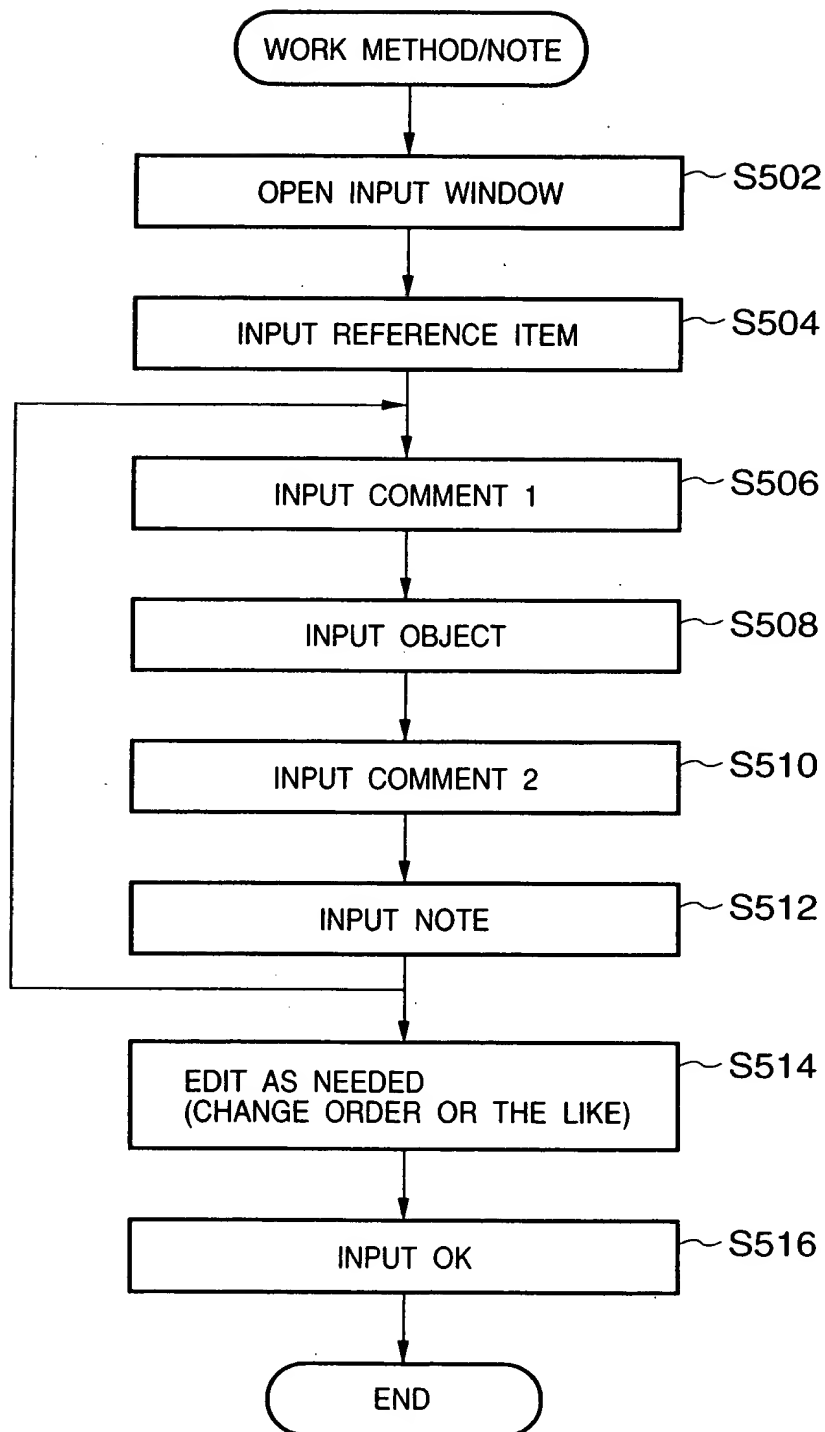
FIG. 14

FIG. 15

00	※	
01	DO zzzz SUCH THAT xxxx AT wwww POSITION BECOMES yyyy	
02	WIND AV CORD	
03	CONFIRM 100V SYSTEM	
04	SET CRG HOLDER	

FIG. 16

NOTE, STANDARD / REQUIRED QUALITY	1601
NOTE	
SEPARATION GRIPPER MOVES SLOWLY WITHOUT GRIPPER SPRING OF ASFu DON'T PULL TAPE TOO STRONG TO MAKE SIDE GUIDE LOOSE DON'T HOOK PAPER GUIDE u ON SHEET HOLDER BEWARE OF IMITATIONS BEWARE OF IMITATIONS(Color Style Write	1602

FIG. 17

NOTE, STANDARD / REQUIRED QUALITY	
1	NOTE

1107

FIG. 18

CONFIRM	
00 ※	
01 CONFIRM 100V SYSTEM	
02 WIND AV CORD	CUT(I)
03 SET CRG HOLDER	COPY(C)
04	PASTE(P)
	ADD(A)
	DELETE(D)
	UNDO
	REVISE(CHANGE)
	REVISE(DELETE)
NOTE, STANDARD / REQUIRED QUALITY	

1802

19/97

FIG. 19

CONFIRM
00 ※
01 WIND AV CORD
02 CONFIRM 100V SYSTEM
03 SET CRG HOLDER
04

NOTE, STANDARD / REQUIRED QUALITY

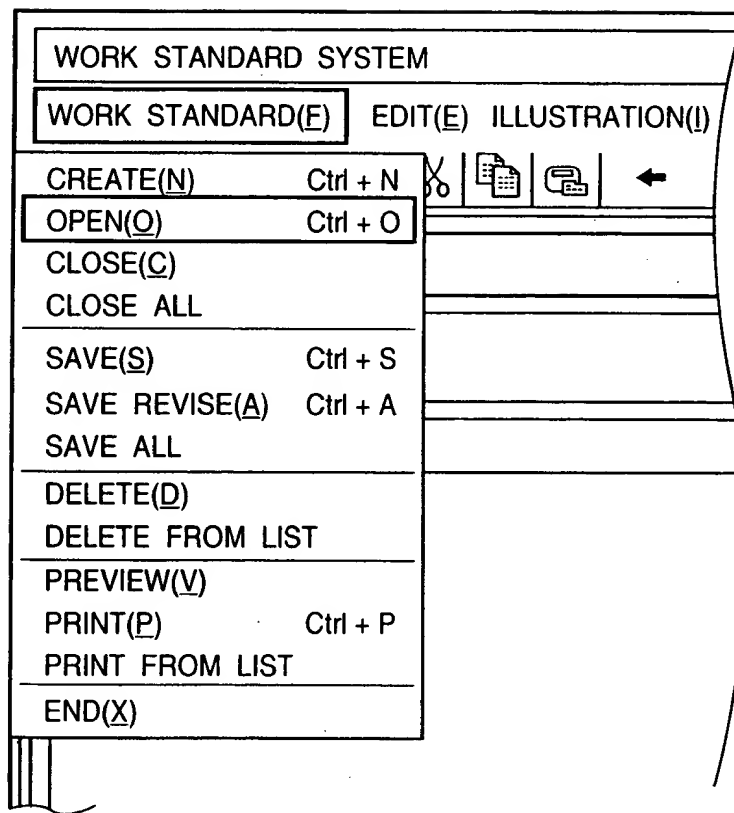
FIG. 20

CONFIRM	
00 ※	
01 WIND AV CORD	
02 SET CRG HOLDER	
03	<div> <div>CUT(I)</div> <div>COPY(C)</div> <div>PASTE(P)</div> <div>ADD(A)</div> <div>DELETE(D)</div> <div>UNDO</div> <div>REVISE(CHANGE)</div> <div>REVISE(DELETE)</div> </div>
NOTE, STANDARD / REQUIRED QUALITY	

1802

FIG. 21

WORK STANDARD SYSTEM	
WORK STANDARD(E)	EDIT(E) ILLUSTRATION(I) SHIPMENT DESTINATION
CREATE(N) Ctrl + N	✂ 📄 📄 ←
OPEN(O) Ctrl + O	
CLOSE(C)	
CLOSE ALL	
SAVE(S) Ctrl + S	
SAVE REVISE(A) Ctrl + A	
SAVE ALL	PART
DELETE(D)	
DELETE FROM LIST	
PREVIEW(V)	
PRINT(P) Ctrl + P	
PRINT FROM LIST	
END(X)	

FIG. 22

23/97

2301

FIG. 24





SYSTEM			
EDIT(E)		ILLUSTRATION(I)	SHIPMENT DESTINATION(S)
		VIEW(V)	 
		EDIT(E)	
01 CREATE		PowerPoint	
		✓ Canvas	

FIG. 25

302

WORK STANDARD 01 CREATION									
APPLIED									
PART NUMBER	PART NAME								
303									
TOOL / TREATMENT DEVICE									
WORK PROCEDURE									
No.									
	2501 2502 2503 2504								
FILE NAME : <input type="text"/>									
<div> <input type="button" value="UPDATE"/> <input type="button" value="CLEAR"/> <input type="button" value="CLOSE"/> </div>									
REVISION NUMBER	CONTENTS OF REVISION	DATE	PERSON IN CHARGE	APPROVE					
01	CREATED	1997/09/25							
WORK NAME									
MANAGEMENT NO.									

2500

FIG. 26

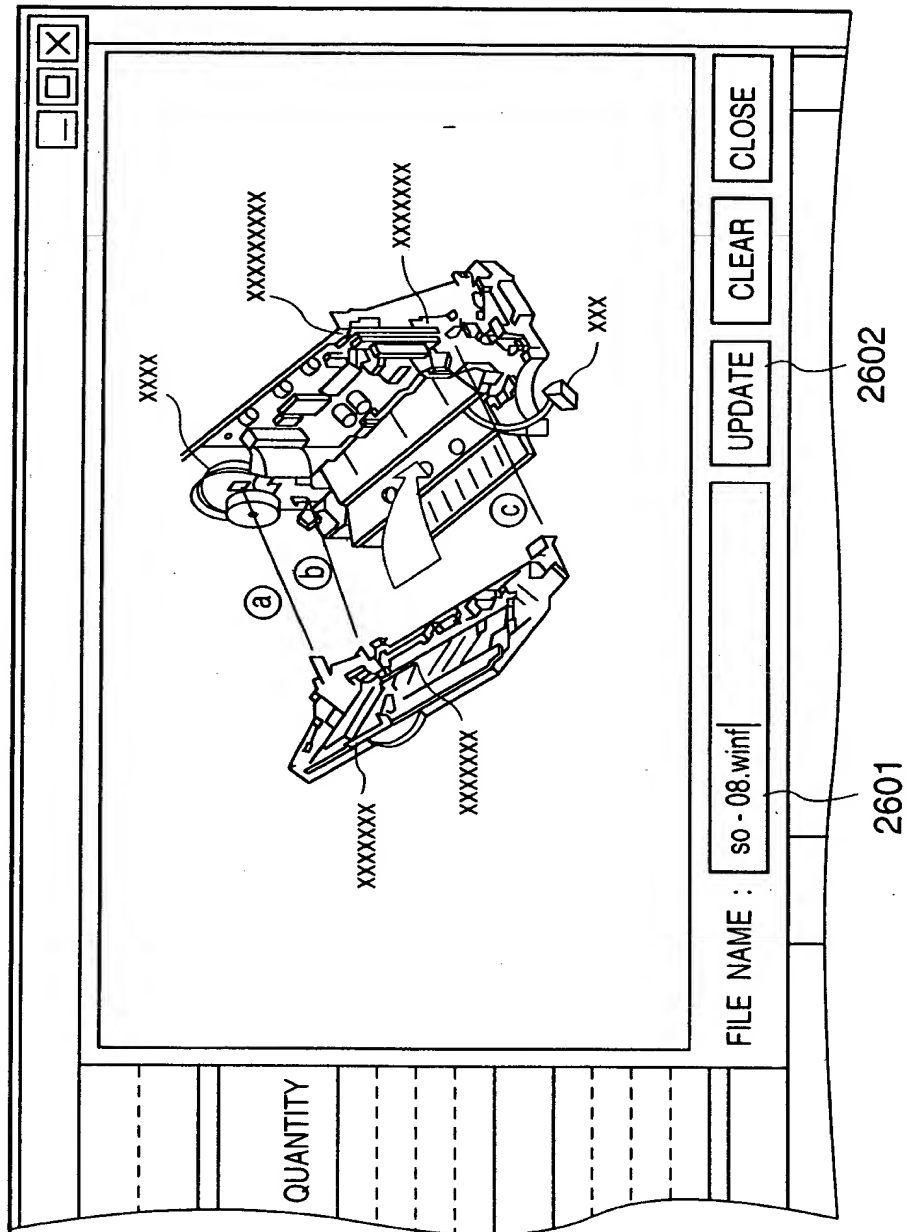


FIG. 27

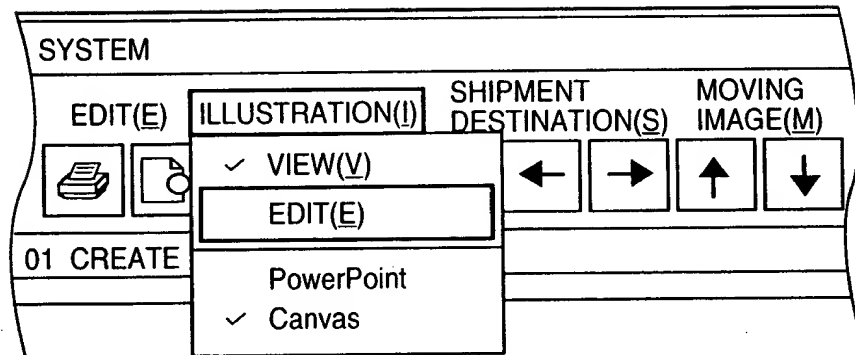
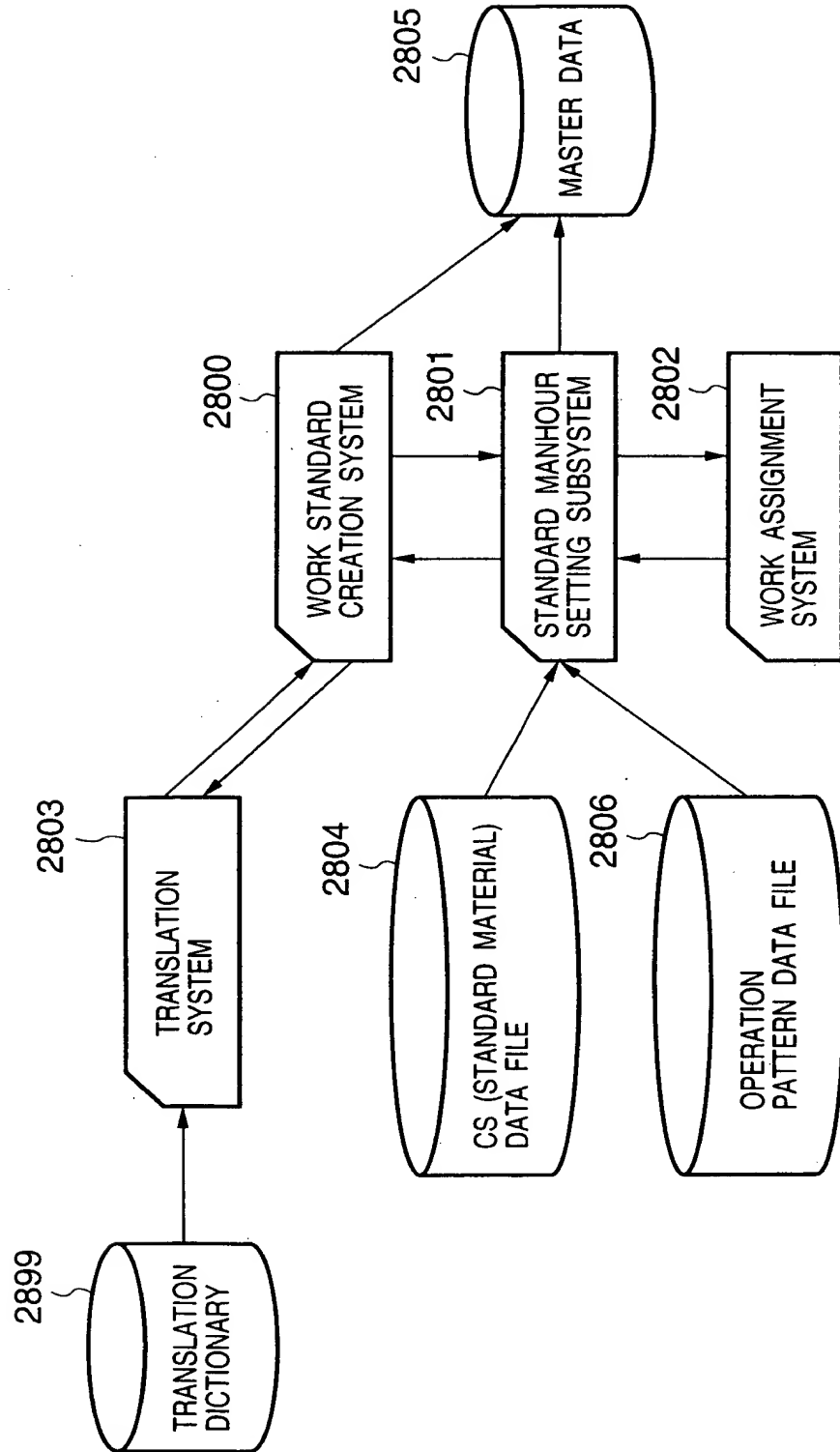


FIG. 28



29/97

FIG. 29

WORK STANDARD : TRANSLATION SYSTEM (PROTOTYPE) [X]

☒ WORK STANDARD DATA

☐ MASTER DATA

UPLOAD WORK STANDARD

DOWNLOAD WORK STANDARD

TRANSLATE WORK STANDARD

END

FIG. 30

3001 3002 3003 3004

TRANSLATION OF WORK STANDARD

REPRESENTATIVE MODEL NAME : A252

PREPUCES NAME : PLATEN UNIT

☐ TOTAL
☒ ASSEMBLY
☐ UNIT
☒ ASSEMBLY

DISPLAY DATA
☒ ALL
☐ UNTRANSLATED
☐ UNCHECKED

DISPLAY LANGUAGE
☐ JAPANESE
☒ ENGLISH

3000

MANAGEMENT NO.	REVISION NUMBER	WORK NAME	AUTOMATIC TRANSLATION	CHECK
PT - 010 - 010	01	SET CLEANER UP	X	X
PT - 010 - 020	01	SET CLEANER UP	X	X
PT - 010 - 030	01	SET CLEANER UP	X	X
PT - 070 - 030	01	ASSEMBLE CHANGEOVER ARM	X	X
PT - 080 - 010	01	SET TRANSMISSION ROLLER	X	X
PT - 090 - 010	01	SET TRANSMISSION ROLLER	X	X
PT - 100 - 010	01	SET SHEET HOLDER	X	X

SELECT ALL
 CANCEL SELECT
 VIEW
 TRANSLATE
 TRANSLATE ALL
 CLOSE

3006 3007 3008 3005

✕
☐
☐

WORK STANDARD(E) ILLUSTRATION(I) VOICE(S) WINDOW(W)

✕
☞
|

1

[illegible]

	Details is of Revision	Data	By	OK
01	New Created by (PX2056)			

[illegible]

FIG. 32

3200

WORK PROCEDURE ✕	
VOICE(W)	
JAPANESE	
WORK PROCEDURE	
ブレードレバ-ハネをブレードレバ-の ① 部に引っ掛ける	
01 ブレードレバ-ハネをブレードレバ-の ① 部に引っ掛ける	
02 ブレードレバ-を矢印 ② 方向にスライドさせ引っ掛かり無くハネ力で戻ることを確認する	
03 ブレードレバ-軸先端がブレードホルダ-先端まで圧入されていることを確認する	
ENGLISH	
Procedure	
The blade lever spring hooks to ① of the blade lever.	
01 The blade lever spring hooks to ① of the blade lever.	
02 Side the blade lever in the direction of arrow ② and there is no catch and n....	
03 Check press-fitting the blade lever shaft leading edge to the braid folder leading ed....	
<div style="border: 1px solid black; height: 20px; width: 100%; position: relative;"> ◀ ▶ </div>	
<div style="display: inline-block; border: 1px solid black; padding: 2px 10px; margin: 0 5px;">TRANSLATE</div> <div style="display: inline-block; border: 1px solid black; padding: 2px 10px; margin: 0 5px;">OK</div> <div style="display: inline-block; border: 1px solid black; padding: 2px 10px;">CANCEL</div>	

3201

3202

3203

3204

FIG. 33

TRANSLATION OF WORK STANDARD (PROTOTYPE)	
WORK STANDARD(E) ILLUSTRATION(I)	
VOICE(S)	HOW(W)
PLAY(P)	
NEW(N)	
DRIVE(D)	
WORK STANDARD PN-030-020 01 New	
Model	QG5-1317
X2056) A252 PLATEN UNIT	

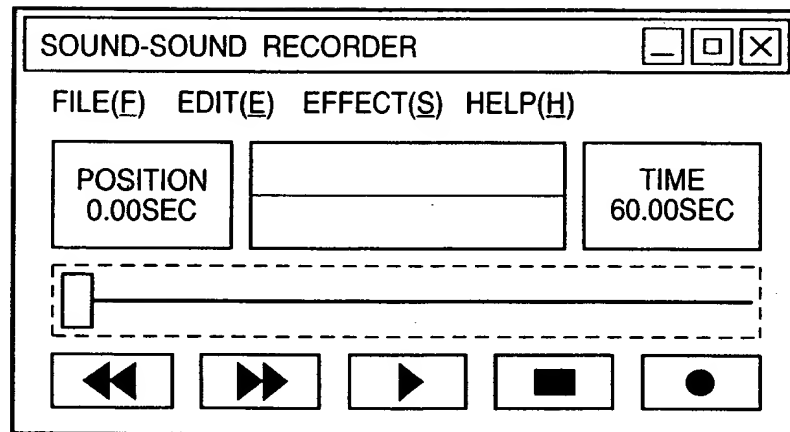
FIG. 34

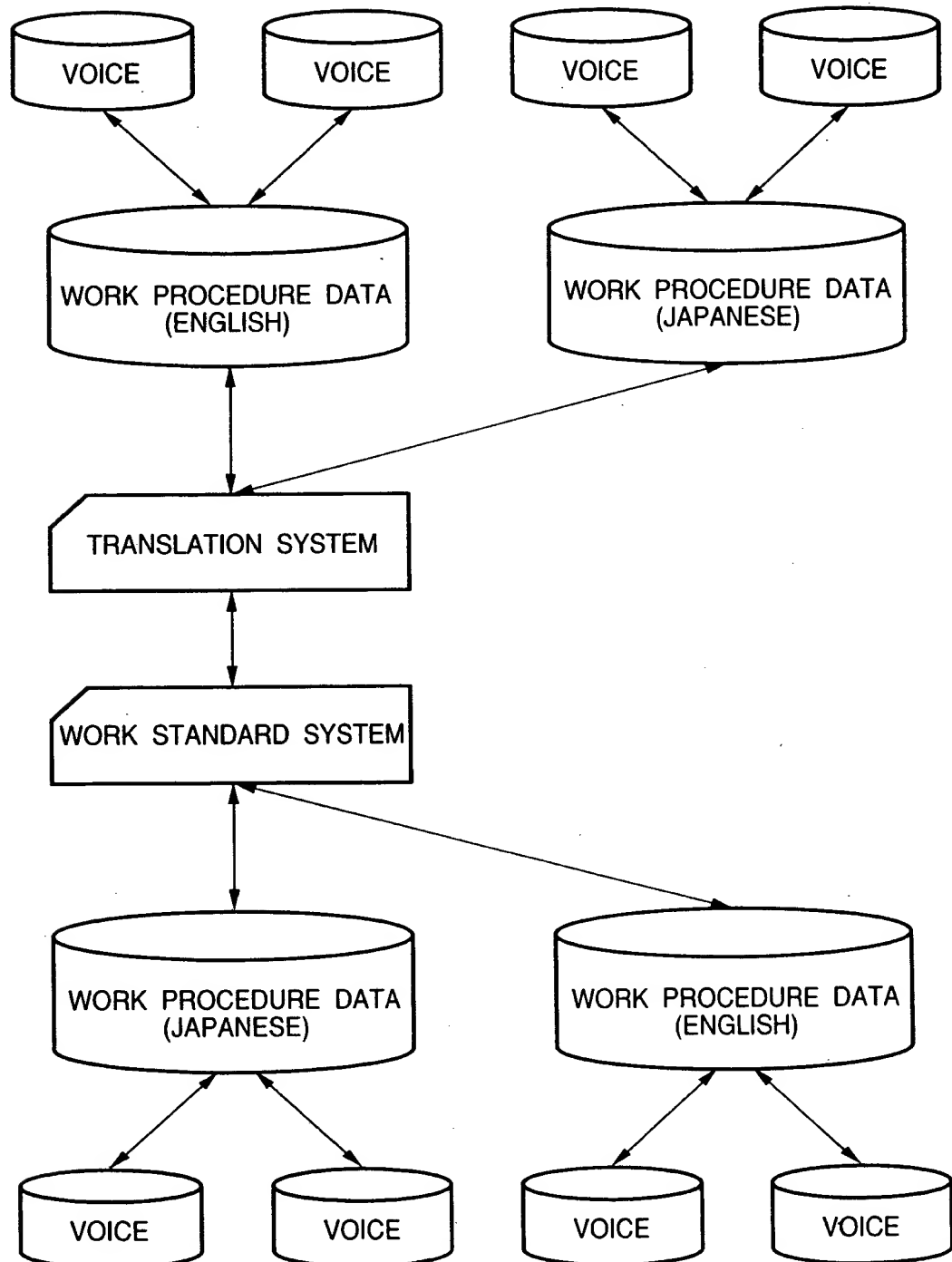
FIG. 35

FIG. 36

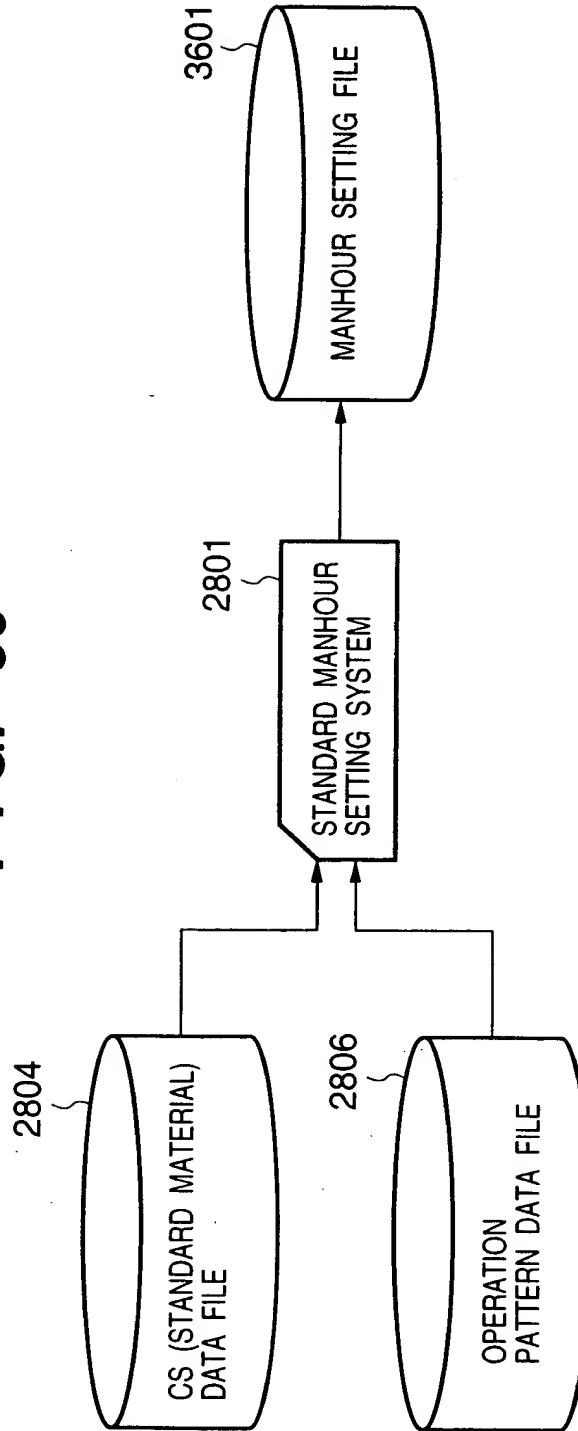


FIG. 37

No.	ELEMENT WORK NAME	FREQUENCY		MANHOUR	CS	SET CONDITION

FIG. 38

STANDARD MATERIAL DATA

COMMENT 1	OBJECT	COMMENT 2	VERB	SET CONDITION DATA

FIG. 39

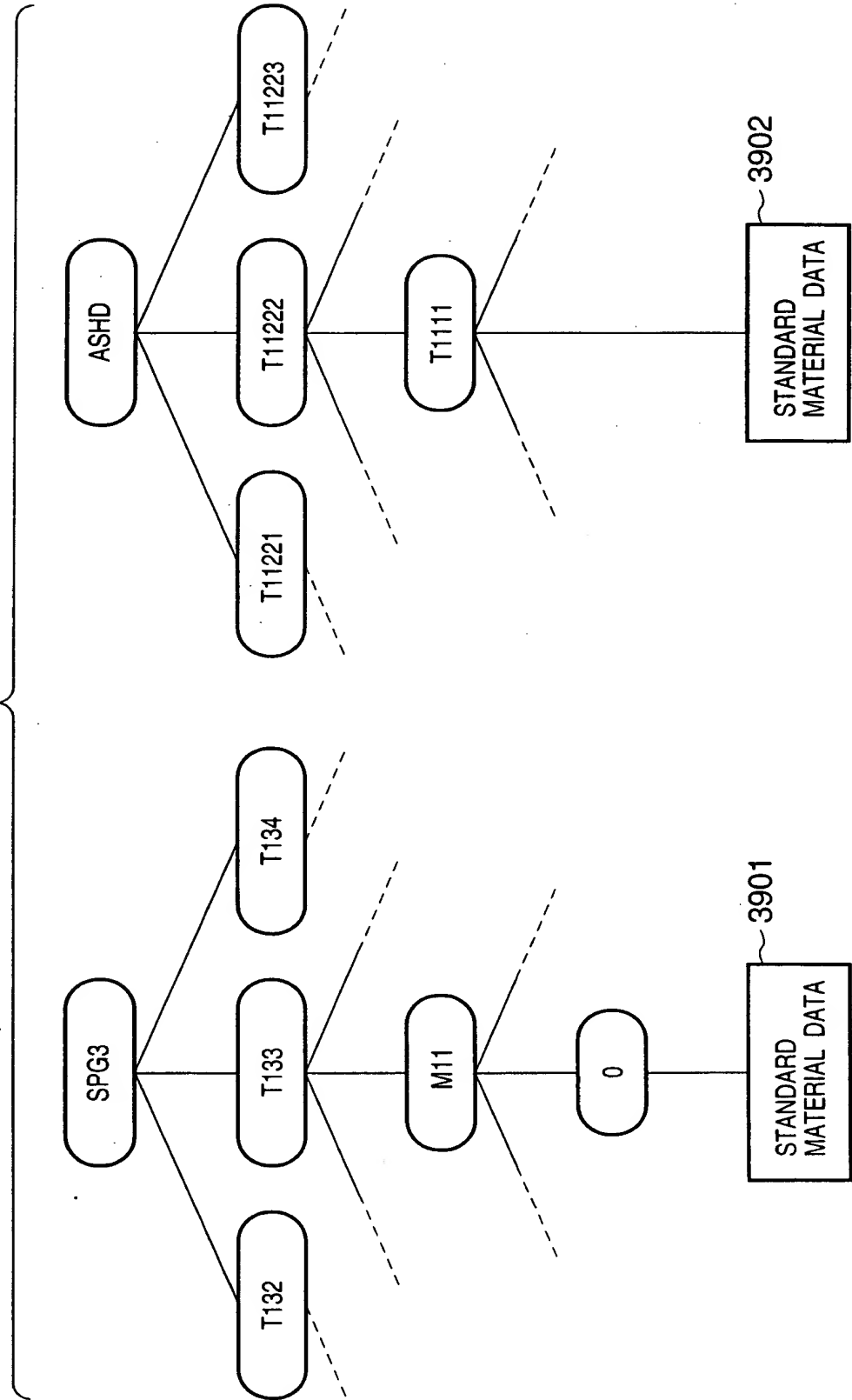
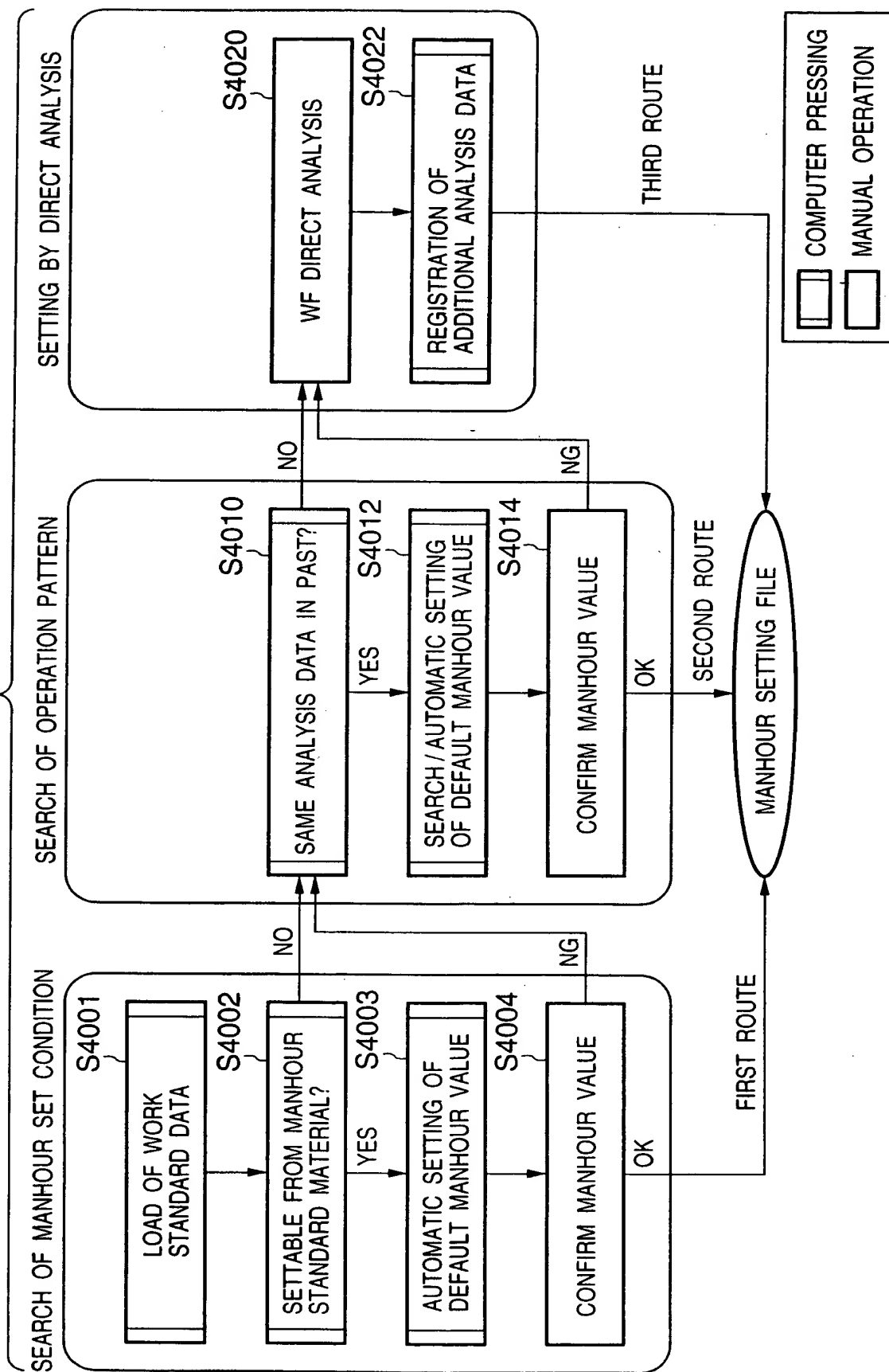



FIG. 40





• ELEMENT WORK NAME

No.	COMMENT 1	OBJECT	COMMENT 2	VERB
1		LOAD SPRING	IN TREATMENT DEVICE FOR ATTACHING LOAD SPRING	SET
2	OF TREATMENT DEVICE	SW		TURN ON
3		SEPARATION ROLLER	IN TREATMENT DEVICE FOR ATTACHING LOAD SPRING	SET
4	OF TREATMENT DEVICE	SW		TURN OFF
5		SEPARATION ROLLER	FROM TREATMENT DEVICE	DETACH

FIG. 42

3601

EDITING OF ELEMENT WORK						
FILE(F) EDIT(E) VIEW(V) ANALYZE(A) ANALYSIS MATERIAL(B) CS(S) END(X)						
UNIT WORK NAME : SEPARATION ROLLER ATTACHMENT						
No.	ELEMENT WORK NAME	FREQUENCY		MANHOUR	CS	SET CONDITION
1	(SET LOAD SPRING IN TREATMENT DEVICE FOR ATTACHING LOAD SPRING)	1	1	41	SPG3	T133 / M11 / O
2	(TURN ON SW OF TREATMENT DEVICE)	1	1	8		
3	(SET SEPARATION ROLLER SHAFT IN TREATMENT DEVICE FOR ATTACHING LOAD SPRING)	1	1	37	ASHD	T11222 / T1111
4	(TURN OFF SW OF TREATMENT DEVICE)	1	1	8		
5	(DETACH SEPARATION ROLLER SHAFT FROM TREATMENT DEVICE)	1	1	16	PUMB	T2111 / T111111

MATCH

SEARCH KEYWORD (KW)

No.	COMMENT 1	OBJECT	COMMENT 2	VERB	MANHOUR STANDARD MATERIAL	TIME VALUE
1	*	SPRING	TO *	SET	SPG3 T133/M11/O	41RU
2	*	*	TO *	SET	ASHED T11222/T1111	37RU
3	*	*	FROM *	DETACH	PUMQ T2111/T111111	16RU
4	*	E-RING	*	SET	RIN2 T11211/SO	76RU
5	*	CONNECTOR	*	INSERT	CONN T11211/SO	41RU
6	*	*	*	SCREW TIGHTLY	SCR6 M211/I	23RU

2804

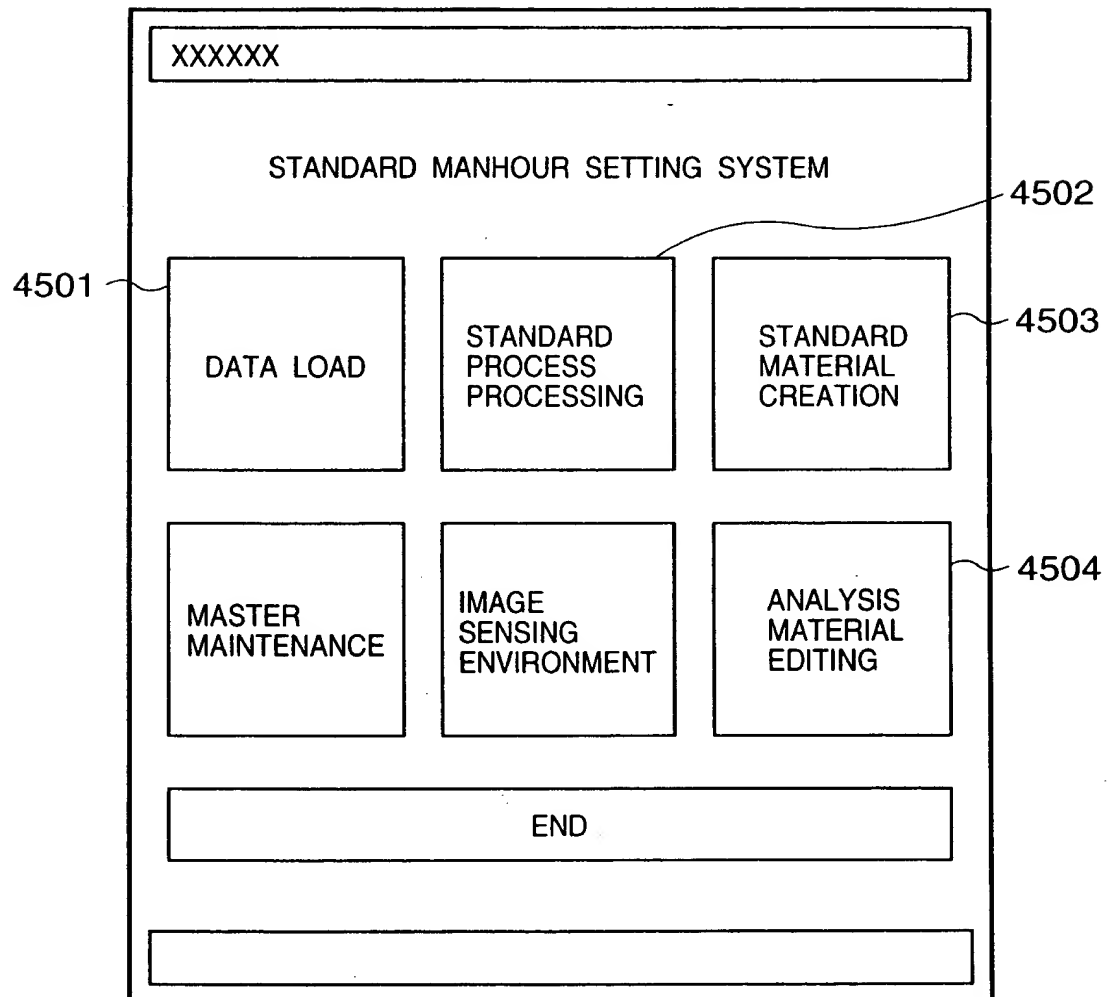
[illegible]

MATCH

No.	COMMENT 1	OBJECT	COMMENT 2	VERB	VERB PATTERN	TIME VALUE
1	TREATMENT DEVICE	SW		TURN ON	/GET:-50E/M:-10E	8RU
2	TREATMENT DEVICE	SW		TURN OFF	/GET:-50E/M:-10E	8RU
3		READING OPERATION UNIT		CLOSE	/GET:-50E/M:-50E	10RU
4		CRG DOOR		CLOSE	/GET:-50E/M:-50E	10RU
5		READING OPERATION UNIT		CLOSE	/GET:-50E/M:-50E	10RU
6		POWER CODE		PULL OUT	/GET:-50Egr2/M:-10E	16RU
7		POWER CODE FOR MEASUREMENT		PULL OUT	/GET:-50Egr2/M:-10E	16RU

[illegible]

FIG. 45



4609 4610

46/97

[illegible]

FIG. 48

4805 4804

LOAD OF DATA

4800

COMPONENT DESIGNATION

4801

☐ ALL

☒ DESIGNATE COMPONENT

4802

CH

AUTOMATIC MANHOUR SETTING

☒ STANDARD MATERIAL(CS)

☒ ANALYSIS MATERIAL

4803

EXECUTE

CANCEL

4806

FIG. 49

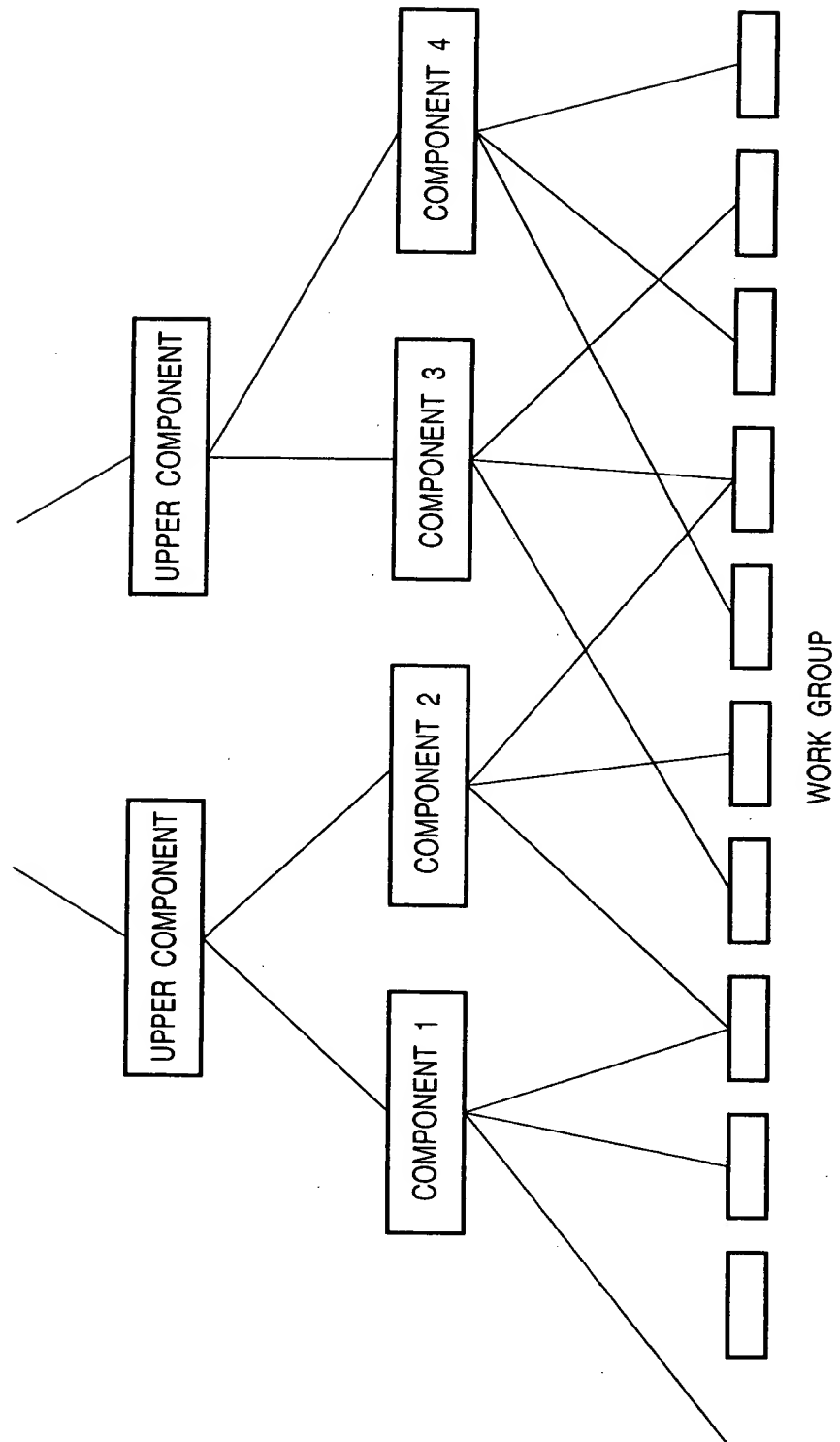


FIG. 50

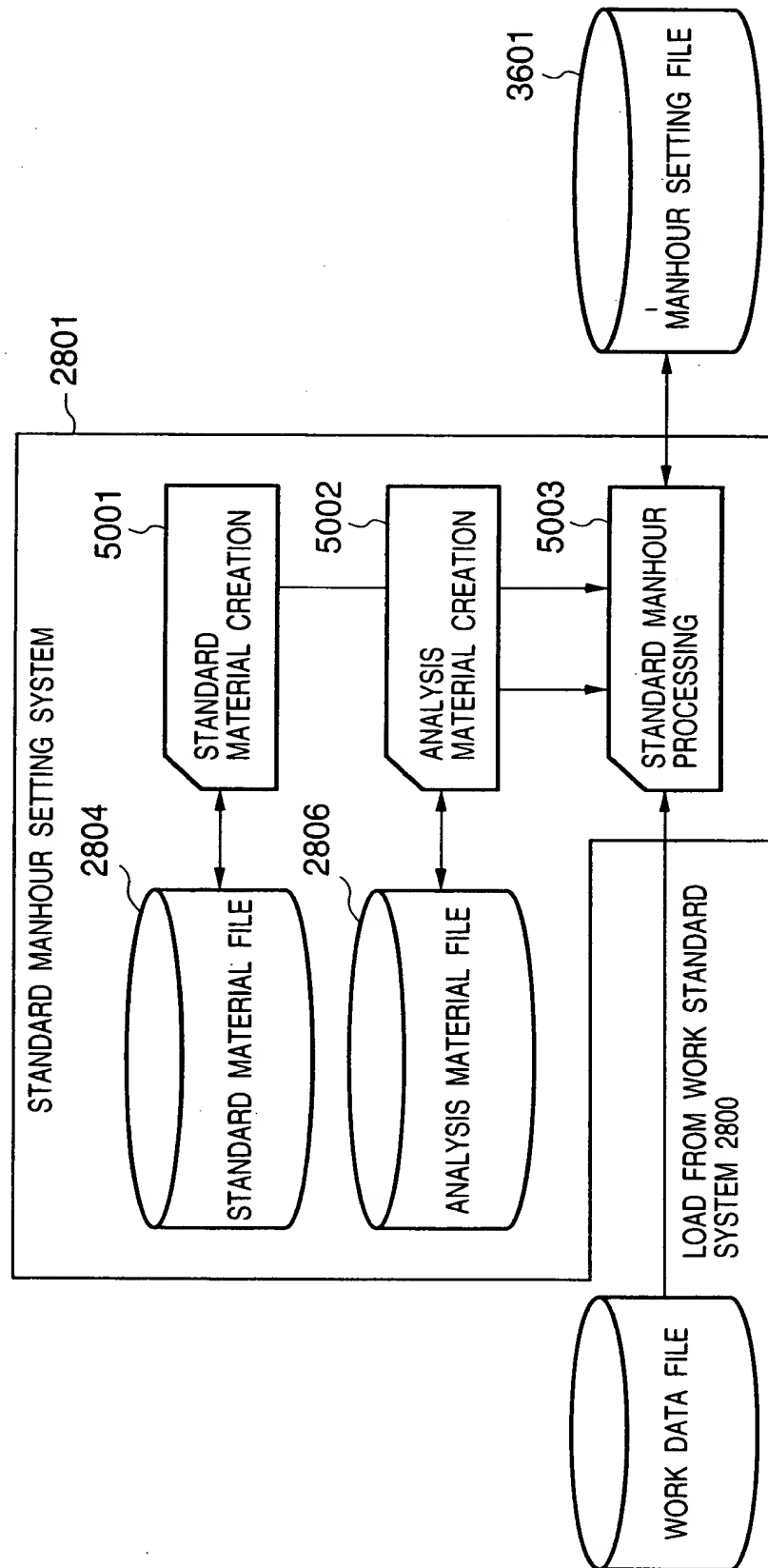
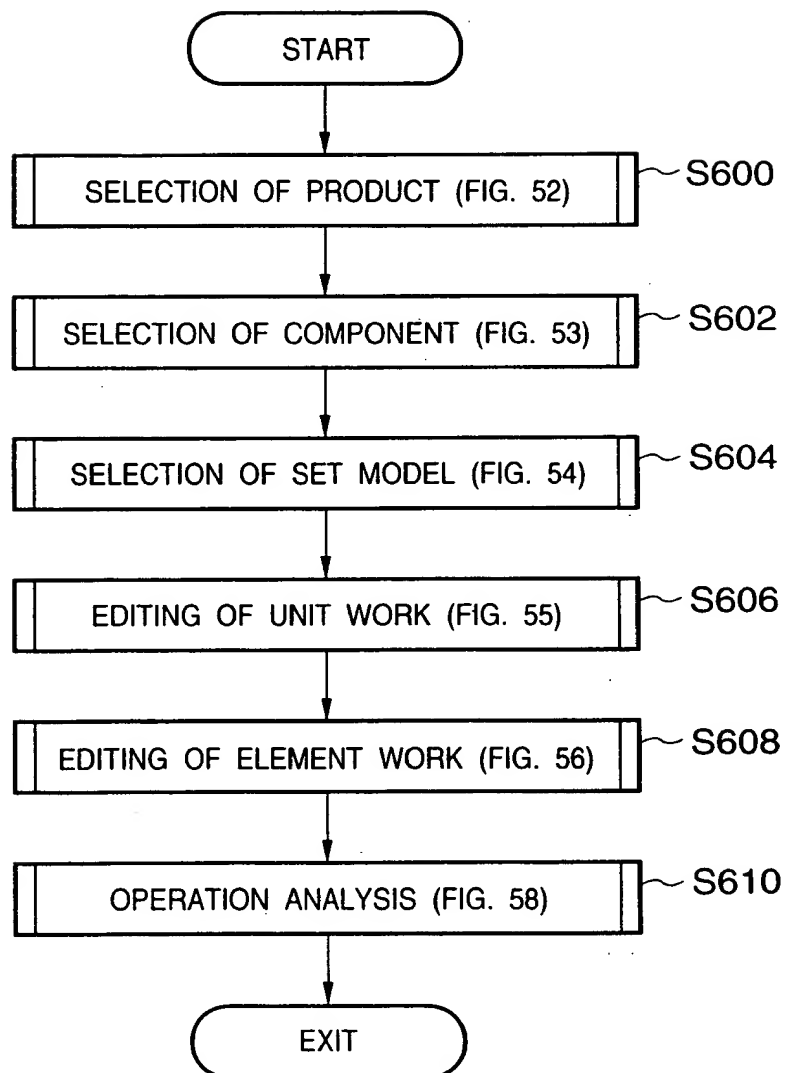


FIG. 51

5201

5301

5401

5501 5507 5506 5502 5503 5504 5505

XXXXXX									
FORMAL MANAGEMENT NO. PU-03-01					UNIT WORK NAME : MOTOR ATTACHMENT			TOTAL MANHOURLY :	NEXT UNIT WORK

NO.	ELEMENT WORK NAME	REVISION	MANHOURLY	US	CS	SET CONDITION
1	SET DOUBLE GEAR TO OPPOSITE SIDE OF AXIS IN ORDER OF SMALL GEAR DIAMETER	1	0	0	0	
*						

COMMENT 1 : TO OPPOSITE SIDE OF AXIS

OBJECT : DOUBLE GEAR

COMMENT 2 : IN ORDER OF SMALL GEAR DIAMETER

VERB : SET

5604
5605
5603
5602
5601

FIG. 57

57/97

EDITING OF ANALYSIS MATERIAL



FILE(E) EDIT(E) VIEW(V)

PRODUCT GENRE :

ALL

TYPE/COMMENT 1	OBJECT	COMMENT 2	VERB	ANALYSIS SYMBOL	MANHOUR	USEFREQ.	COUNT	SET DATE
▲	AIR CAP:	MAIN BODY	AS ARROW 1	INSERT	-50/G1/N>6/-3	15	0 1 1	0 97/09/09 9:52
	AIR CAP:	MAIN BODY	AS ARROW 1	INSERT	-50/E/02/N/-6	11	0 1 1	0 97/09/09 9:53
	AIR CAP:	MAIN BODY	AS ARROW 1	INSERT	-50/G1/N>6/-3	15	0 1 1	0 97/09/09 9:55
		ELEMENT WORK 01		VERB	-50/G1/N>6/-3	15	0 1 1	0 97/09/09 16:34
	AIR CAP:	MAIN BODY	AS ARROW 1	INSERT	-50/G1/N>6/-3	15	0 1 1	0 97/09/09 19:09
		CARRIAGE LOCK		APPLY	Time100/Rate100	100	100 1 1	1 97/09/09 19:16
	ASSEMBLE MOTOR	PRINTER CHASSIS	INSERT & SET	M211/1/10	50	1 1 1	1 1	97/09/09 17:00
		PRINTER CHASSIS	TURN INSIDE OUT	T1221/M2311/0/0	12	0 1 1	0	97/09/09 17:34
	1		1	T2221/M1211/0/1	24	0 1 1	0	97/09/09 17:20
	2		2	T1221/M2311/0/0	12	0 1 1	0	97/09/09 17:24
	PRINTER CHASSIS	ASSEMBLE PR GUIDE	SET		15	0 1 1	0	97/09/09 11:24
	dgdfafdfas		fdasfdasfasfad	*	16	0 1 1	0	97/09/09 12:10
	dsdsffsfdsdsaf		fdasfdsdldfs	T21121/M1111/0/1	13	0 1 1	0	97/09/09 12:10
	dgdfafdfas		fdasfdasfasfad	*	16	0 1 1	0	97/09/09 13:39
	PRINTER CHASSIS	ASSEMBLE PR GUIDE	SET		15	0 1 1	0	97/09/09 14:00
	PRINTER CHASSIS	ASSEMBLE PR GUIDE	SET		15	0 1 1	0	97/09/09 14:00
	PRINTER UNIT		SET	Time100/Rate100	100	100 1 1	0	97/09/09 14:04

FIG. 58

OPERATION ANALYSIS									
1 SET MAIN BODY TO PREDETERMINED POSITION		TOTAL SIMO VALUE : 0		TOTAL MANHOURLY VALUE: 15		SIMO		NEXT ELEMENT WORK	
NO.	CONTENTS OF OPERATION	WF/OS	SET CONDITION	MANHOURLY	USE	REMARKS			
▲ 1	XXXXXX	PU	-60/Gr1/N/>6/-3	15	0				
*									

FIG. 59

☐ 1. PU

☐ 6. DSY

☐ 11. PU

☐ 16. DSY

☐ 2. GET

☐ 7. R

☐ 12. GET

☐ 17. R

☐ 3. M

☐ 8. UMAC

☐ 13. M

☐ 4. MA

☐ 9. MP

☐ 14. MA

☐ 5. ASY

☐ 10. BODY

☐ 15. ASY

☐ SIMO

5902

5901

FIG. 60

XXXXXXX

PU

PICK UP

MANUAL

1 :	MOVING DISTANCE	1	-10cm	2	+10cm	3	>50cm	4	5	6
2 :	GRIP TYPE		Qr-3		Qr-2					
3 :	PRE-POSITIONING		NO		YES					
4 :	MAIN SIZE		-10mm		-6mm					
5 :	WEIGHT		<3Kg		>3Kg					
6 :										

SET

CANCEL

SET VALUE

FORMULA

6001

6002

6003

FIG. 61

61/97

FORMULA

TURN
CHANGE DIRECTION OF BODY
MANUAL

FORMULA : 10 * m

VARIABLE	VARIABLE NAME	VALUE	UNIT
m :	THE NUMBER OF TIMES OF OPERATION OF CHANGING DIRECTION		COUNT
n :			
p :			
q :			
r :			
s :			

SET

CANCEL

SET VALUE

6102
6105

6101

6104

6103

FIG. 62

The figure shows a graphical user interface window titled "INQUIRY OF LOG". The window contains several input fields and two buttons. The labels and their corresponding UI elements are as follows:

- 6201**: Points to the title bar of the window.
- 6202**: Points to the "VARIATION AMOUNT" input field, which contains the value "10".
- 6203**: Points to the "USE" input field, which contains the value "0".
- 6204**: Points to the "CHANGE REASON" dropdown menu, which currently displays "SET".
- 6205**: Points to the "OK" button.
- 6206**: Points to the "Clear" button.

The "REASON CODE" field contains the value "1".

FIG. 63

6301 6302

CORRECTION OF CHANGE LOG

DATE

1997

09

22

O =

O FROM

O BEFORE

O ~

SEARCH

NO.	UNIT WORK NAME	CODE	CHANGE REASON	NEW MANHOUR	(NEW) MANUAL	(NEW) USE	PREVIOUS (PREVIOUS) MANHOUR	(PREVIOUS) USE	CHANGE DATE
▶ CH-01-01	ELECTRICAL CHECK	1	SET	10	10	0	0	0	1997/09/22 14:30.00

REASON CODE

1

CHANGE REASON

SET

OK

CIR

END

FIG. 64

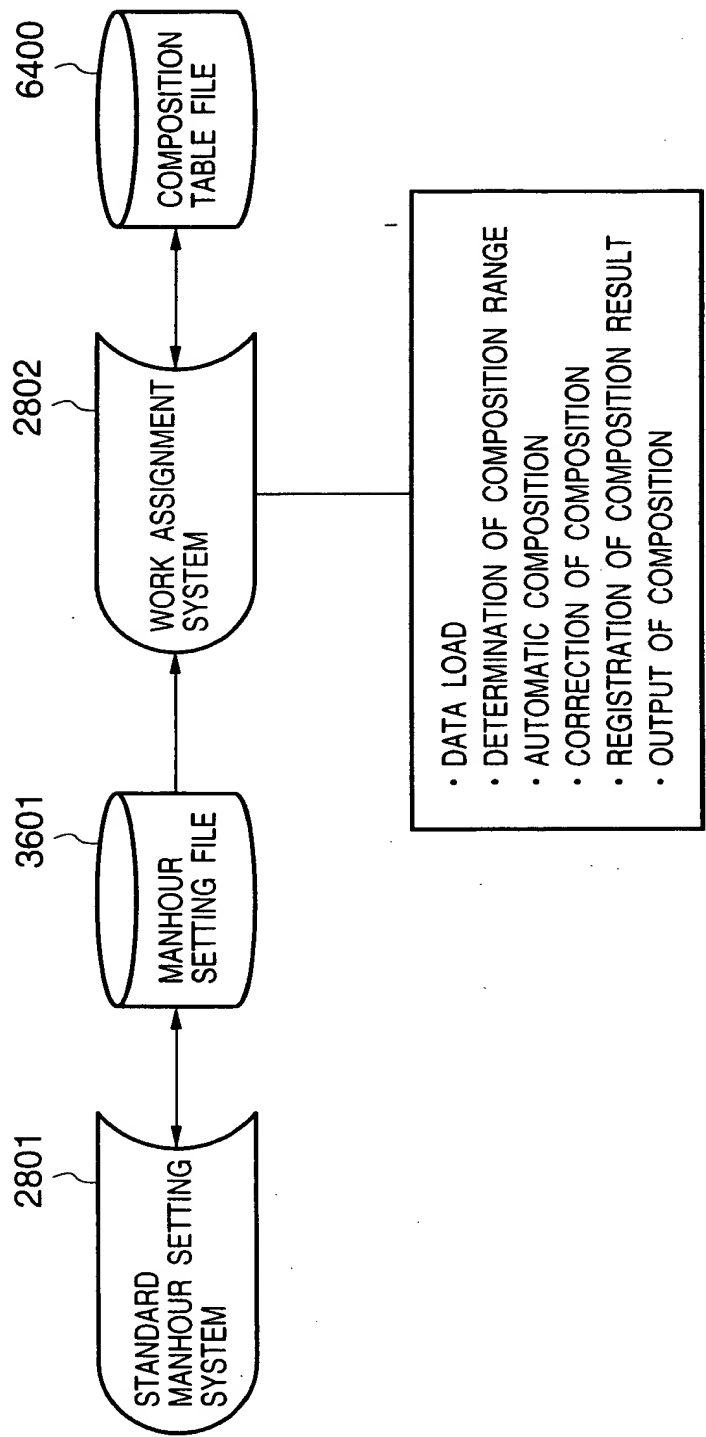


FIG. 65

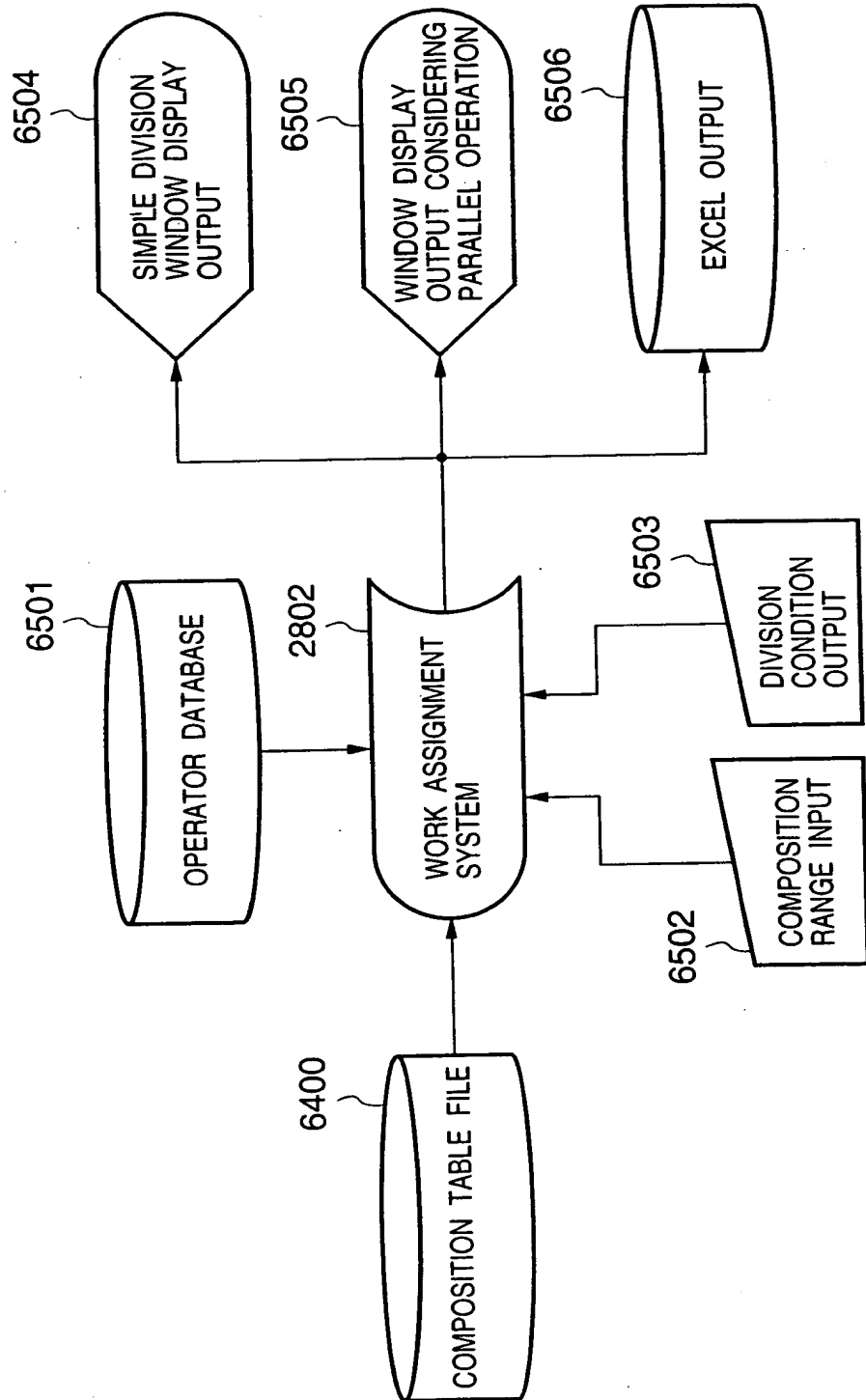


FIG. 66

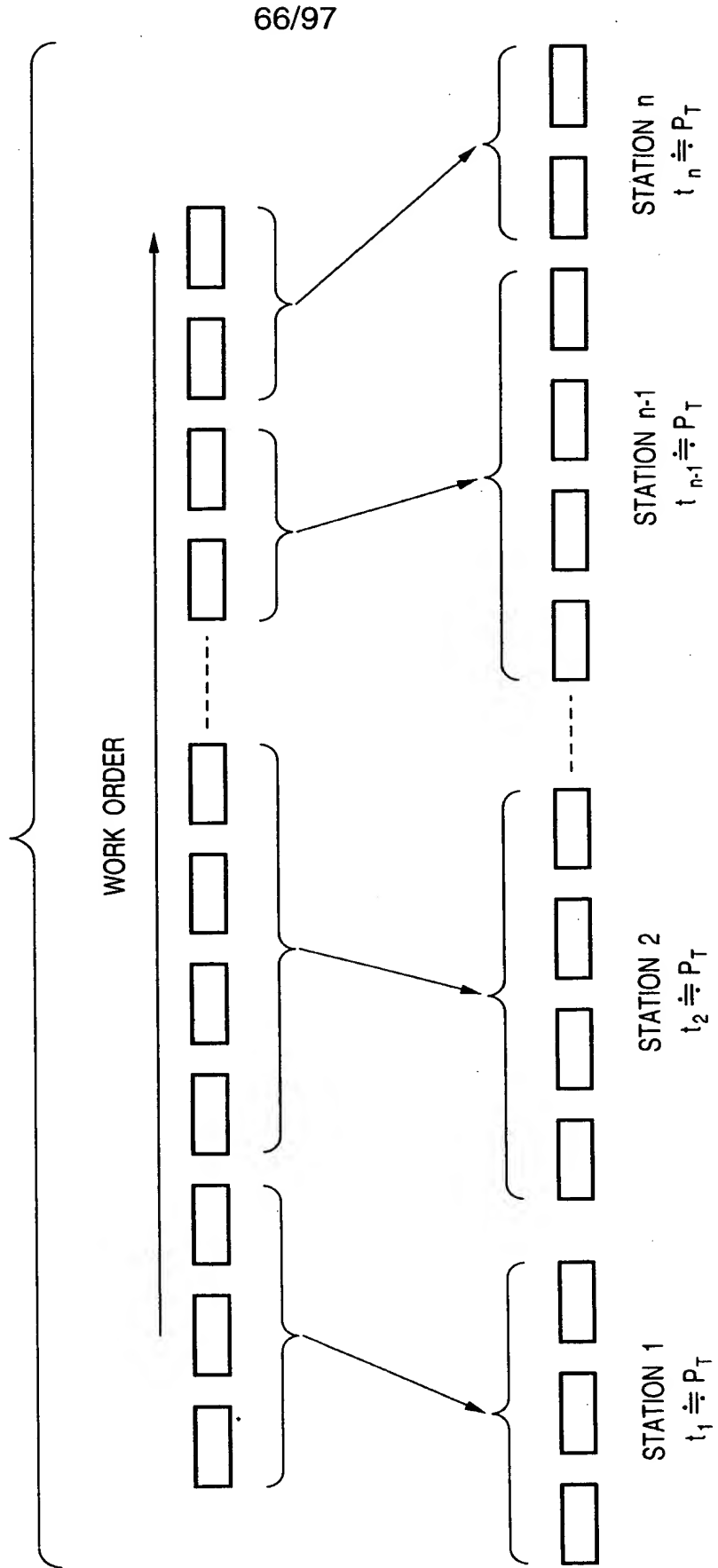


FIG. 67

FILE(F)	EDIT(E)	INPUT(I)	TOOL(O)
---------	---------	----------	---------

MODEL	GP55
UNIT	

STANDARD NO.	WORK NAME	MANHOUR
0001	STICK HANDY CUT TAPE	134
0002	SET LABELS ON MAIN BODY	550
0003	WEIMAN REMOVAL	270
0004	ASSEMBLE OUTER CASE	365
0005	FIT TOP PAD	268
0006	STICK LARGE-SIDE ORDER LABEL	117

{ SIMPLE DIVISION
 PARALLEL DIVISION

FIG. 68

SIMPLE DIVISION

		▼	▲
	FILE(F) EDIT(E)		◆
St 1			
0001	STICK HANDY CUT TAPE	134	
0002	SET LABELS ON MAIN BODY	550	
0003	WEIMAN REMOVAL	270	
St 2			
0004	ASSEMBLE OUTER CASE	365	
0005	FIT TOP PAD	268	
0006	STICK LARGE-SIDE ORDER LABEL	117	
⋮			

FIG. 69

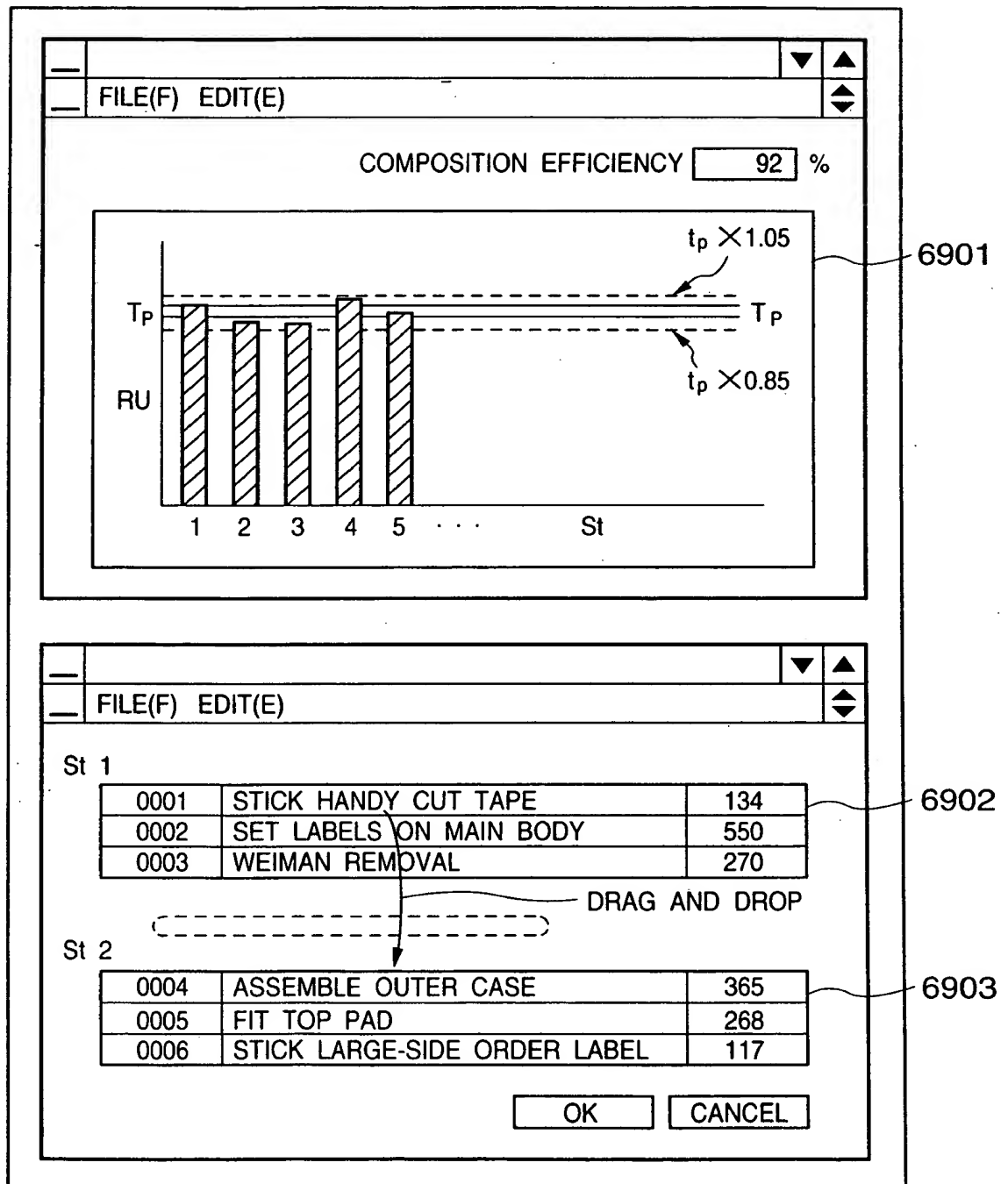


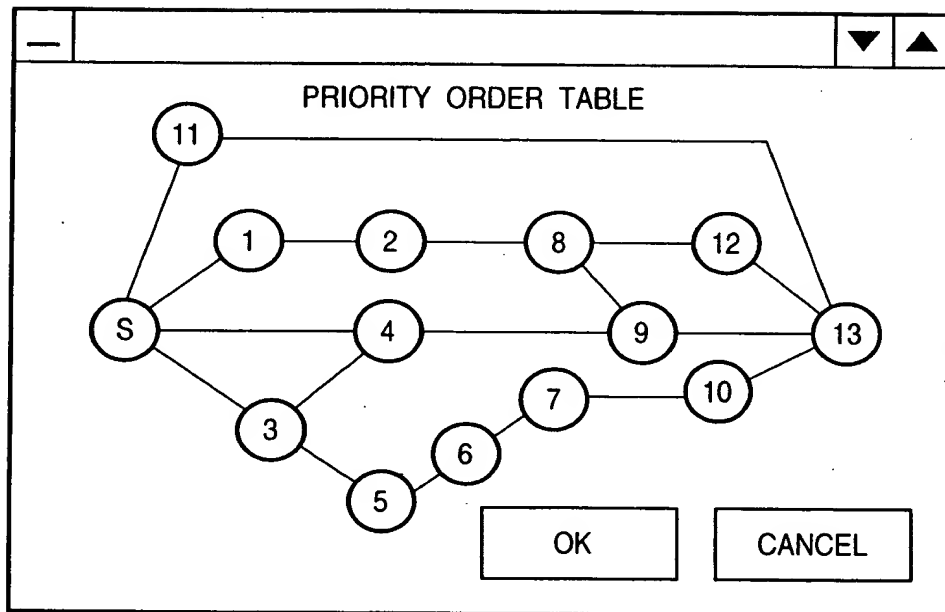
FIG. 70

FIG. 71

PARALLEL DIVISION

PLAN 2		PLAN 1	
St 1		St 1	
1		1	STICK HANDY CUT TAPE 99
2		2	SET LABELS ON MAIN BODY 78
8		3	WEIMAN REMOVAL 134
St 2		St 2	
3		4	ASSEMBLE OUTER CASE 732
4		5	FIT TOP PAD 268
5		6	STICK LARGE-SIDE ORDER LABEL 117
		⋮	

FIG. 72

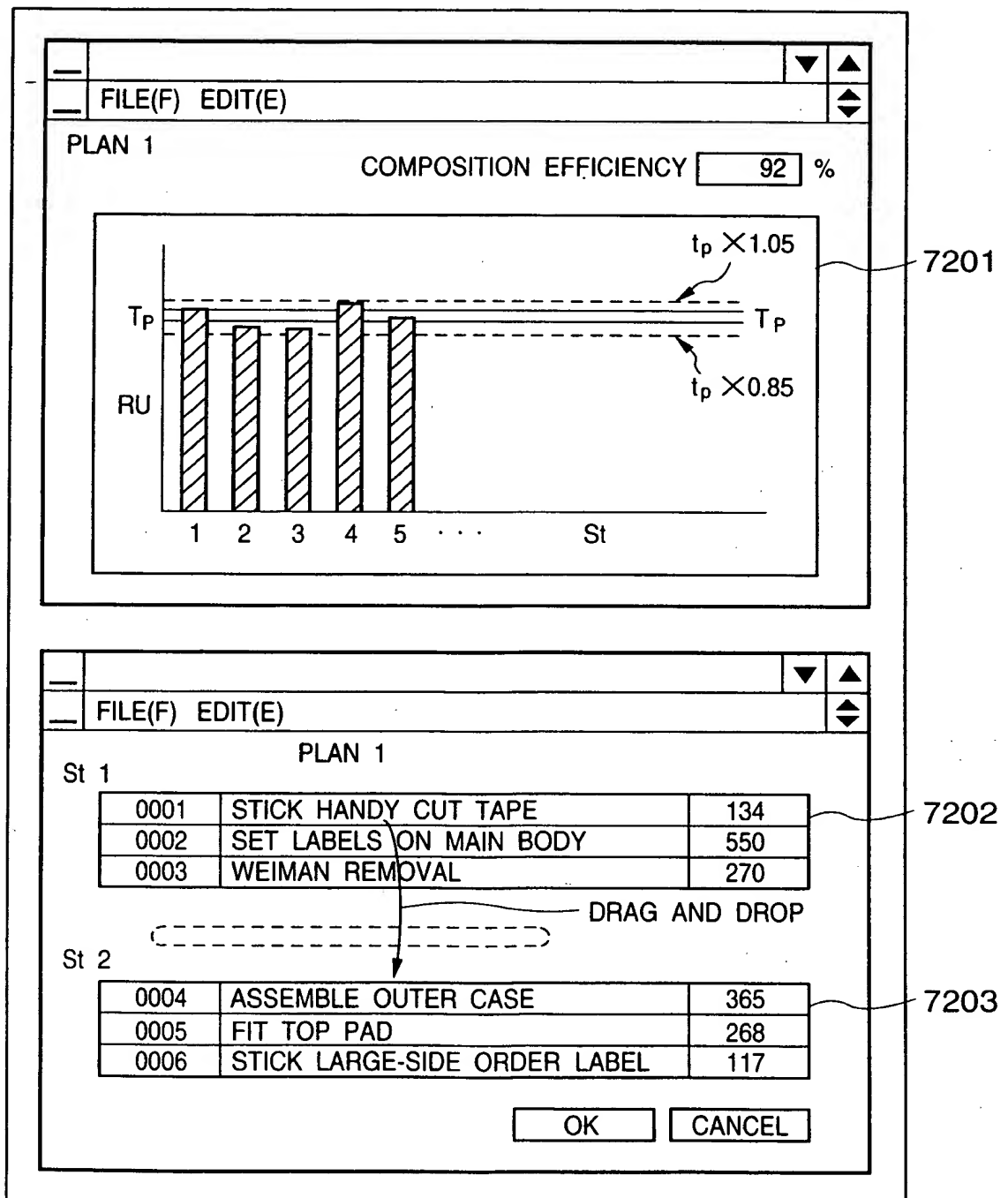


FIG. 73

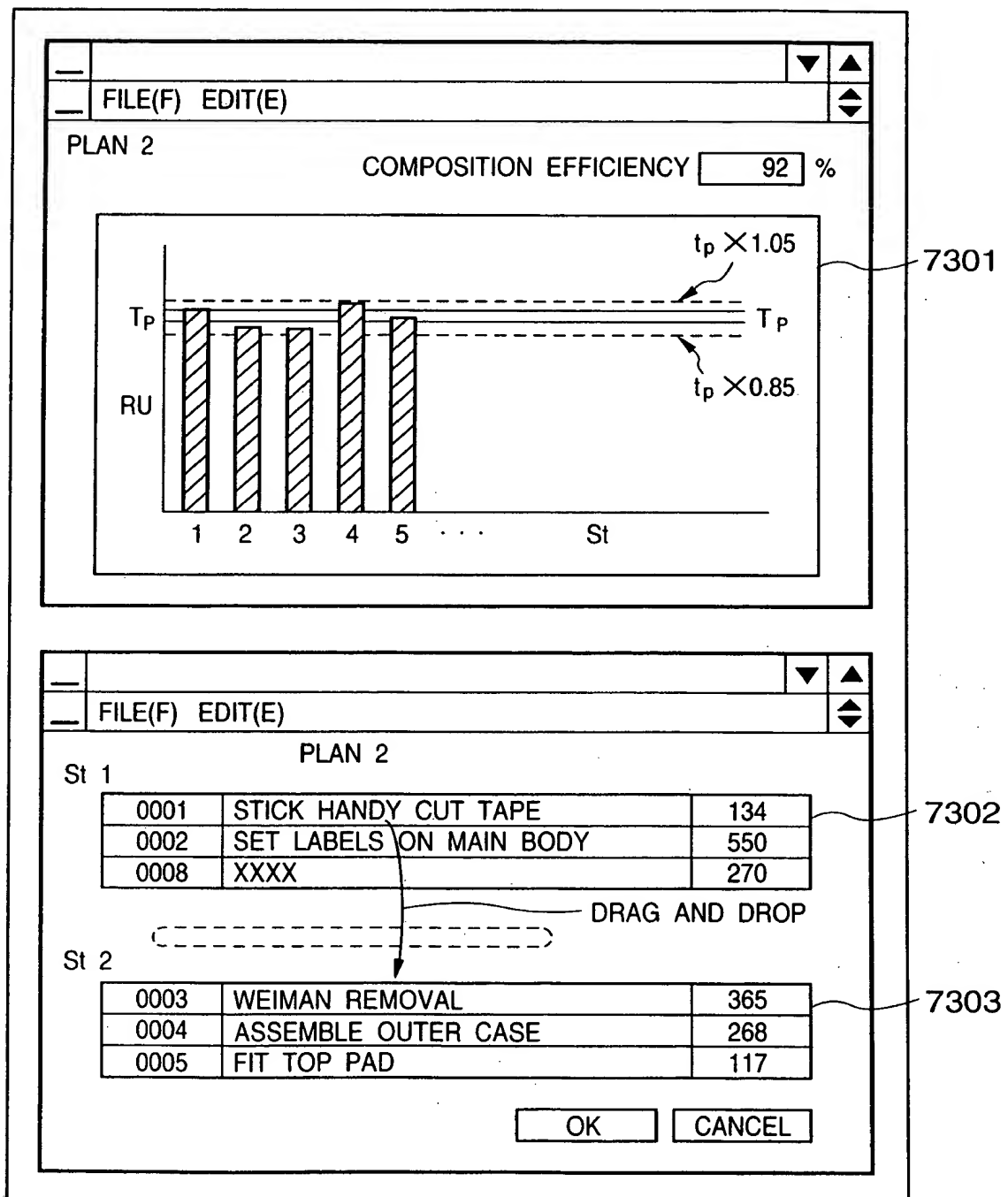


FIG. 74

7403

7404

7405

7406

7407

7408

7409

LOAD OF NEWLY COMPOSED DATA (MANHOURLY)

GENRE

REPRESENTATIVE MODEL

TARGET MODEL

COMPONENT

COMPONENT SYMBOL

COMPONENT NAME

ORDER

OK

CANCEL

7401

7402

BJ

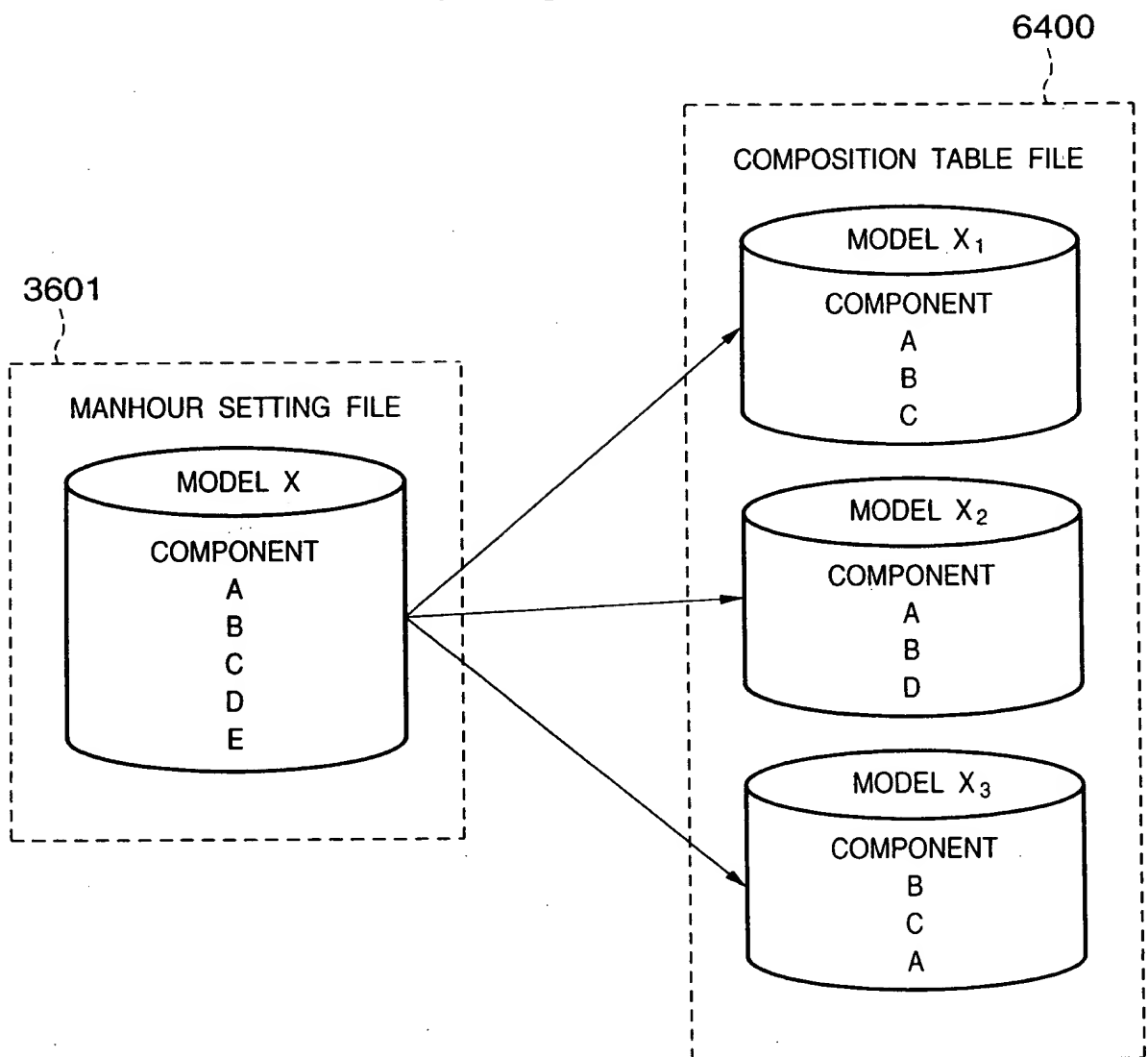
FAX

LBP

NP

STAND

FIG. 75



7606

FIG. 77

[illegible]

FIG. 78

INSERTION OF UNIT WORK

NEW WORK WILL BE INSERTED BEFORE
"STICK CHECK SHEET SERIAL NO."

INPUT WORK NAME AND PROVISIONAL MANHOUR VALUE

UNIT WORK NAME :

7801

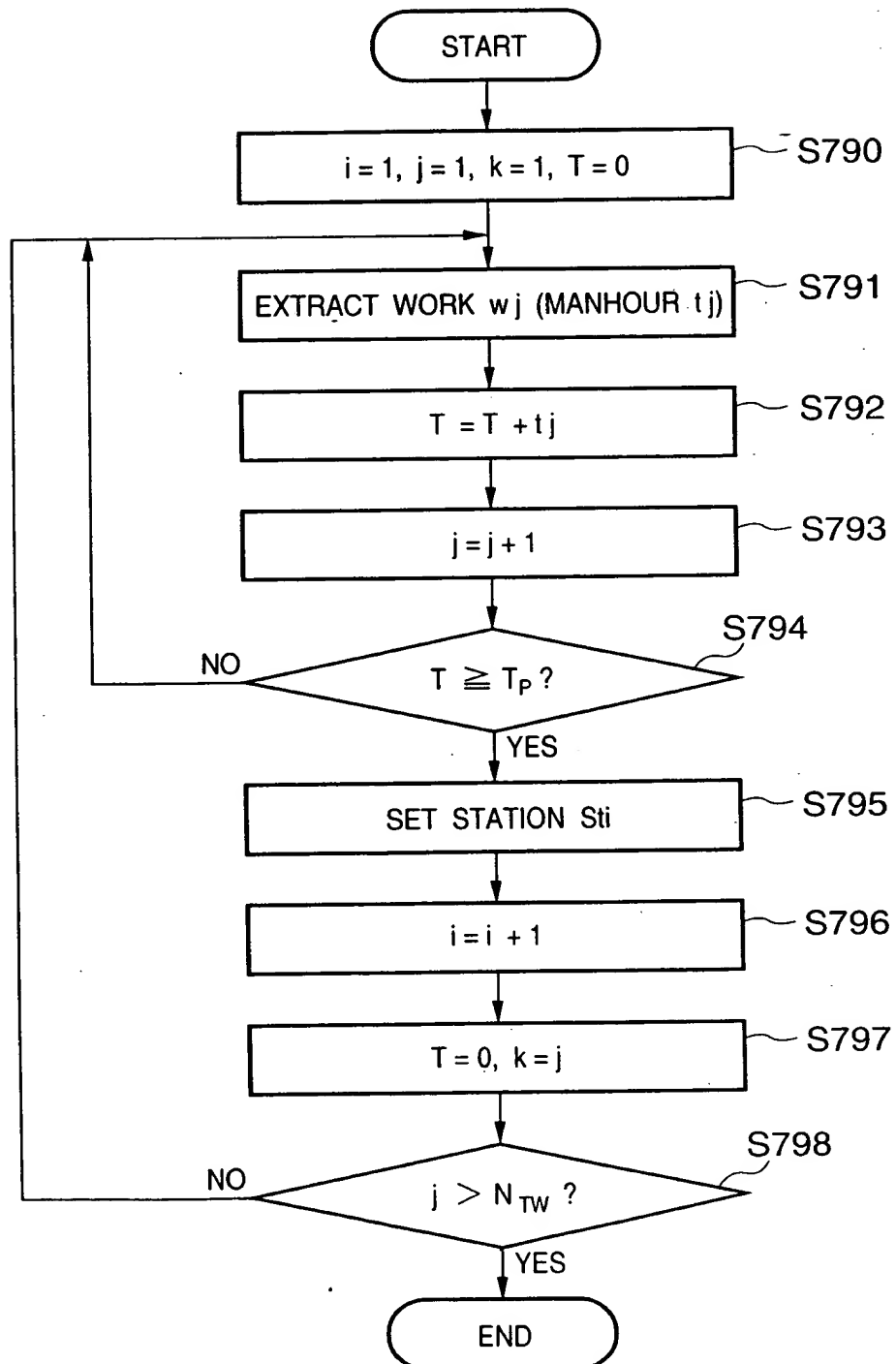
PROVISIONAL MANHOUR : (RU)

7802

REMARKS :

OK CANCEL

FIG. 79



8006

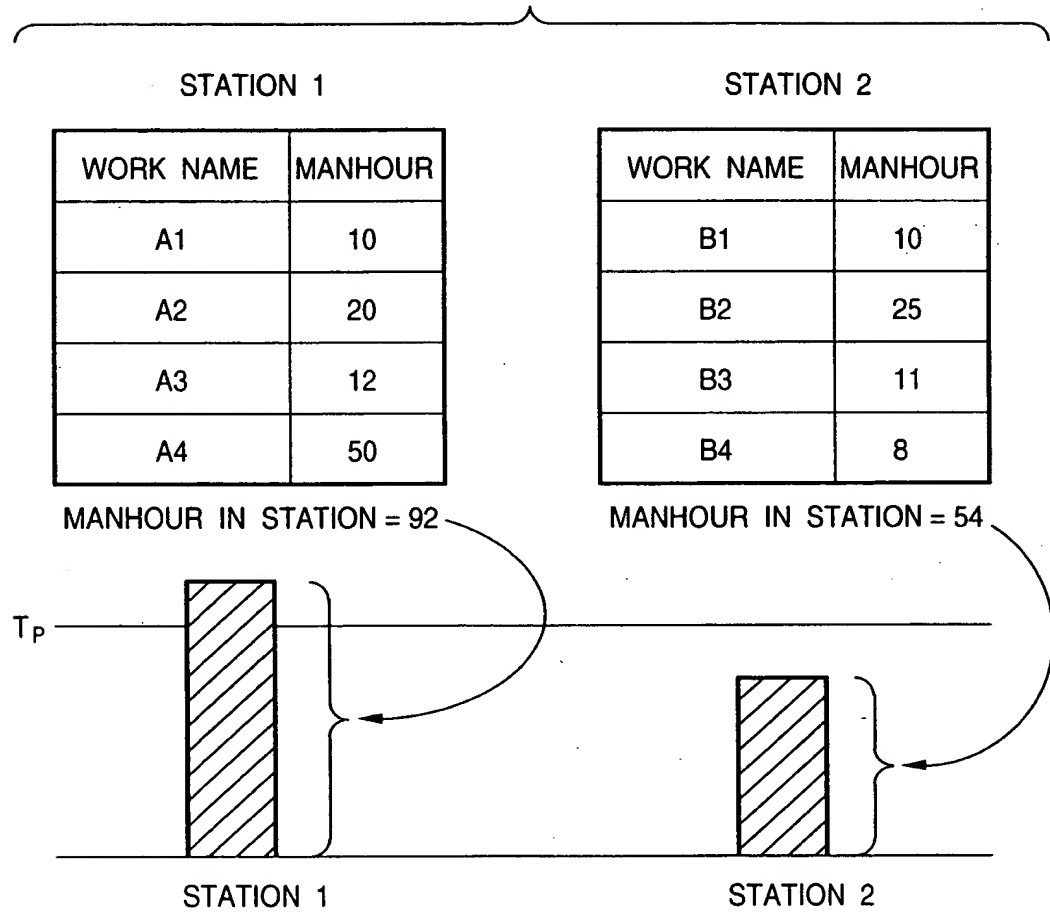
FIG. 81

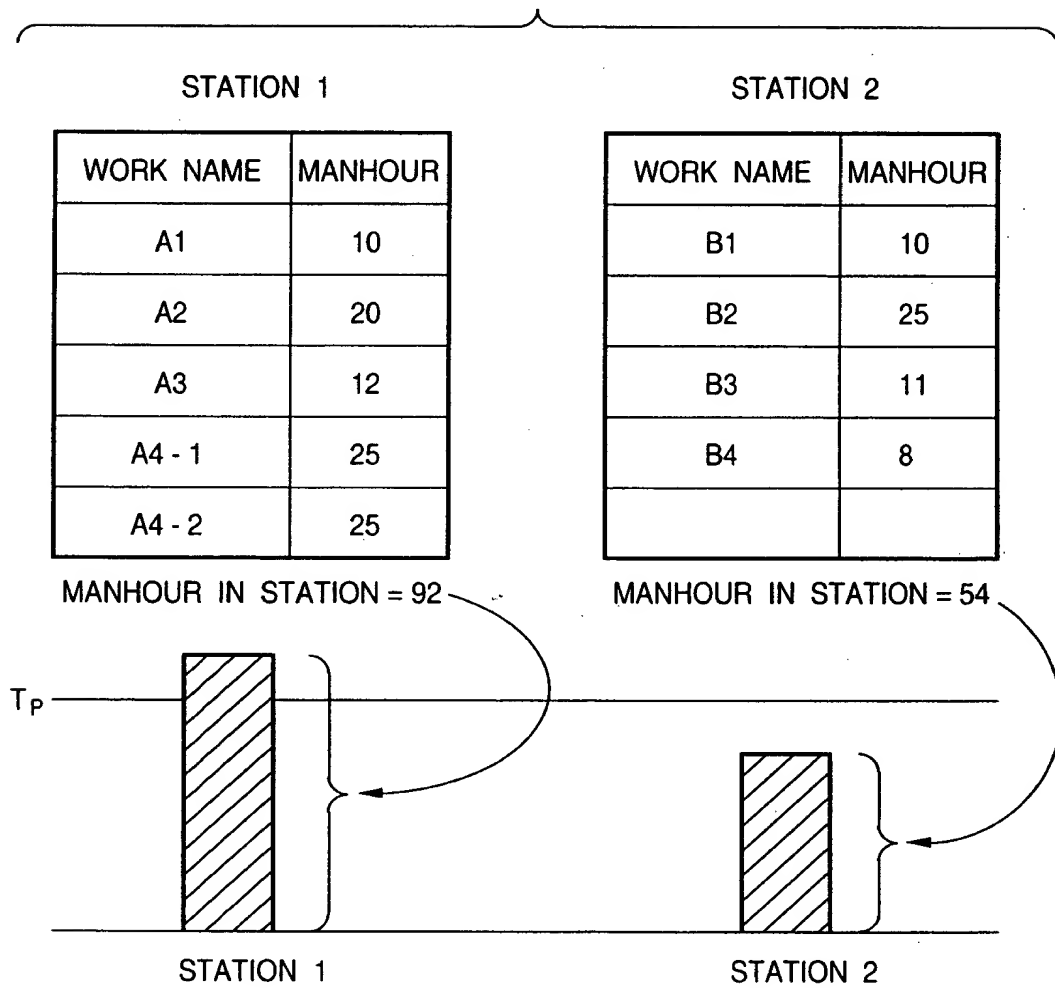
FIG. 82

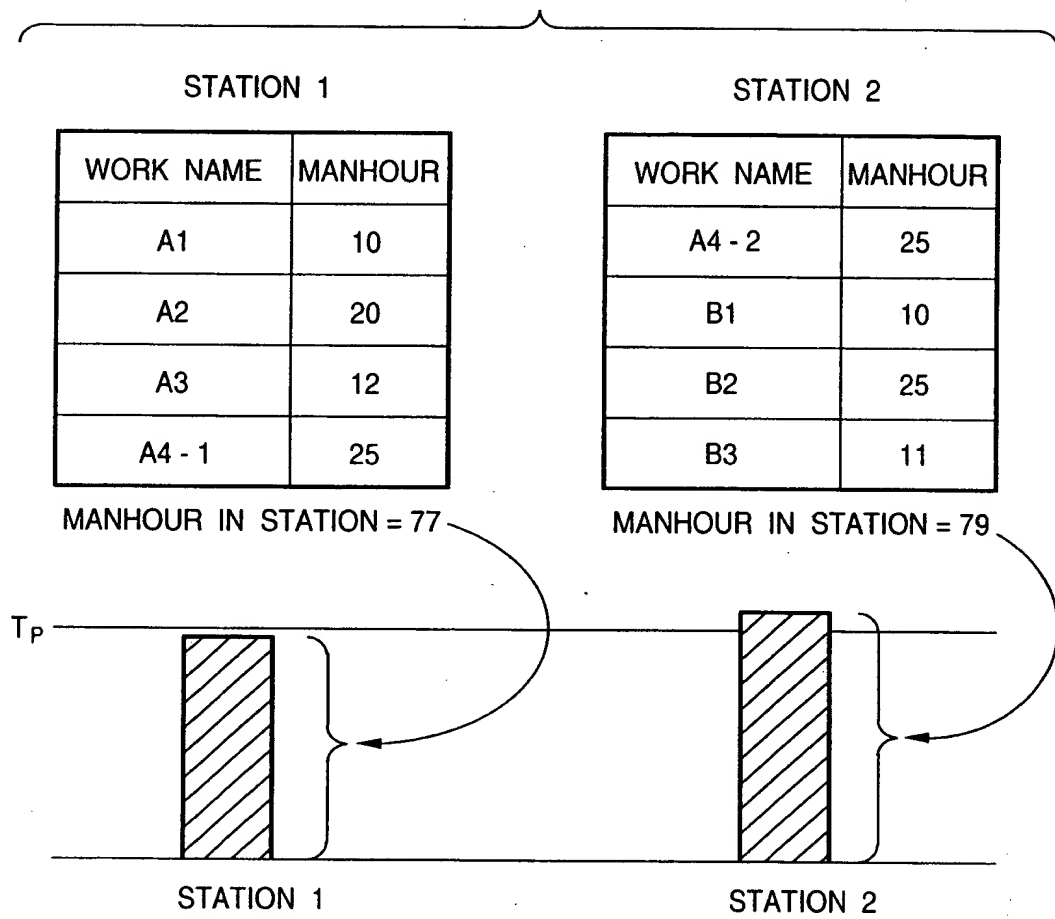
FIG. 83

FIG. 84

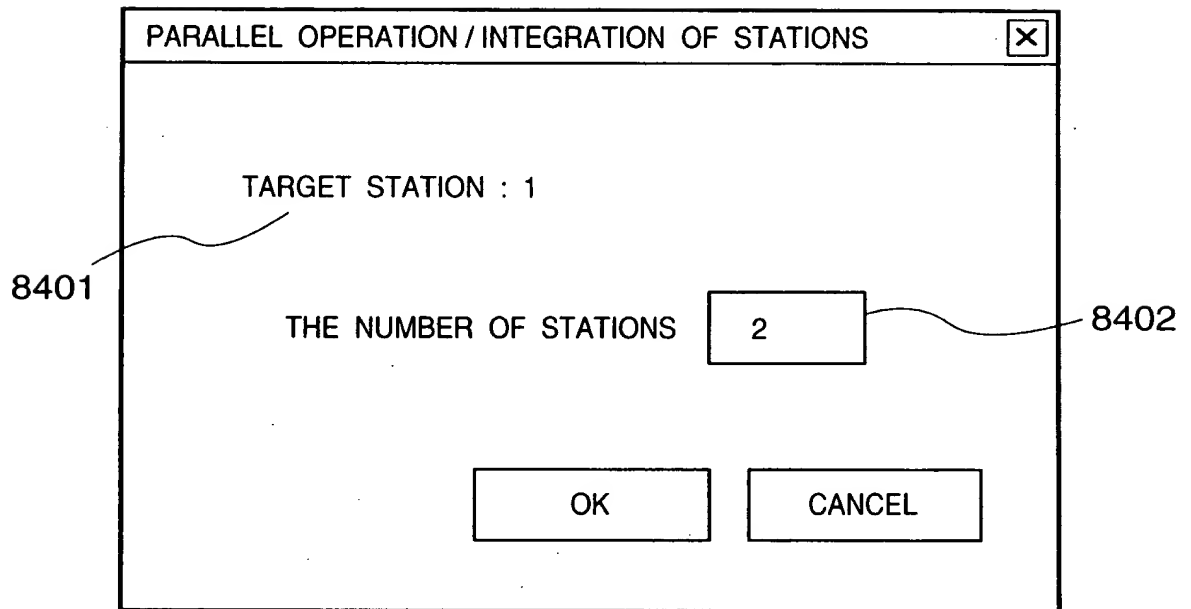


FIG. 85

FILE(F) EDIT(E) VIEW(V) TOOL(T)

OPERATOR 1

SI1

WORK NAME	WF	PROV. SIONAL MANHOURL	MA-CHINE UAL
START	0	0	No.
UNIT WORK NAME 1	34	10	No.01
UNIT WORK NAME 2	255	46	No.02
UNIT WORK NAME 6	92	26	No.06
UNIT WORK NAME 7	52	0	No.07
UNIT WORK NAME 8	52	0	No.08
UNIT WORK NAME 9	0	36	No.09

TOTAL 585 (RU)

PF 83.6%

OPERATOR 2

SI2

WORK NAME	WF	PROV. SIONAL MANHOURL	MA-CHINE UAL
UNIT WORK NAME 3	156	0	No.03
UNIT WORK NAME 4	34	0	No.04
UNIT WORK NAME 5	138	23	No.06
UNIT WORK NAME 10	71	48	No.10
UNIT WORK NAME 11	138	30	No.11
UNIT WORK NAME 12	97	20	No.12
UNIT WORK NAME 13	88	0	No.14
UNIT WORK NAME 14	46	18	No.15
UNIT WORK NAME 15	546	15	No.16
UNIT WORK NAME 16	58	20	No.17

TOTAL 1548 (RU) xxxxxx

PF 23.5 %

OPERATOR 3

SI3

WORK NAME	WF	PROV. SIONAL MANHOURL	MA-CHINE UAL
UNIT WORK NAME 13	30	40	No.13
UNIT WORK NAME 16	303	131	No.18

TOTAL 572 (RU)

PF 96.7%

OPERATOR 4

SI4

WORK NAME	WF	PROV. SIONAL MANHOURL	MA-CHINE UAL
UNIT WORK NAME 19	84	26	No.19
UNIT WORK NAME 20	120	20	No.20
UNIT WORK NAME 21	310	66	No.21

TOTAL 623 (RU)

PF 95.2%

OPERATOR 5

SI5

WORK NAME	WF	PROV. SIONAL MANHOURL	MA-CHINE UAL
UNIT WORK NAME 22	146	71	No.22
UNIT WORK NAME 23	106	26	No.23
UNIT WORK NAME 24	61	0	No.24
UNIT WORK NAME 25	51	10	No.25
END	0	0	No.X

TOTAL 486 (RU)

PF 73.6%

PARALLEL STATIONS

--- tp
--- tp*1.05
--- tp*0.85
--- t

G STANDARD NO. WORK NAME

WF MEANS MA-CHINE MANHOURL

COMPOSITION MODE : PRIORITY ORDER SCHEME

COMPOSITION EFFICIENCY % 116 %

NET COMPOSITION EFFICIENCY %

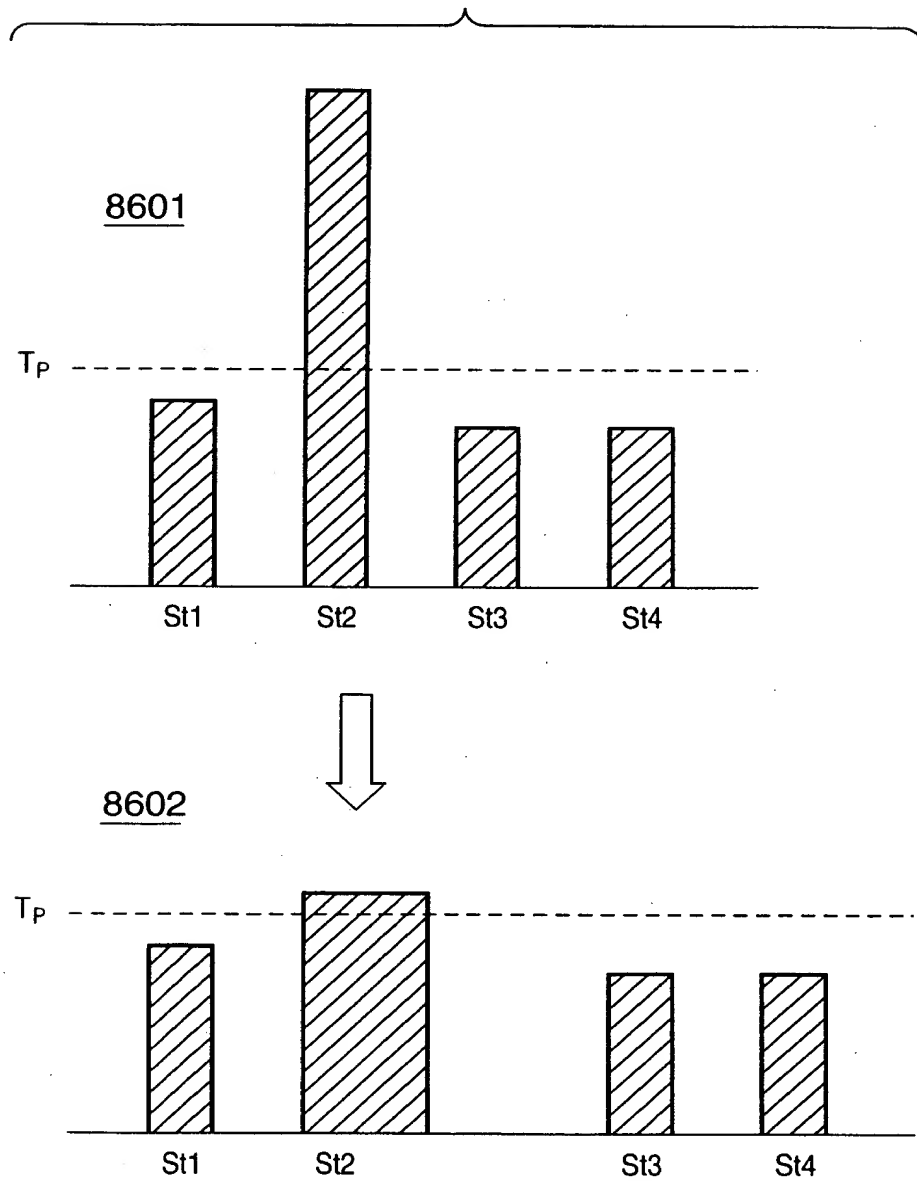
FIG. 86

FIG. 87

A diagram of a 'USER REGISTRATION' dialog box. The dialog box has a title bar with the text 'USER REGISTRATION' and a close button (X) in the top right corner. Inside the dialog box, there are five input fields and two buttons. The fields are labeled on the left: 'NAME CODE :', 'NAME :', 'POSITION :', 'PASSWORD :', and 'AUTHORITY :'. The 'NAME CODE' field contains '12345'. The 'NAME' field is split into two boxes, 'TANAKA' and 'ICHIRO'. The 'POSITION' field contains 'kumitate' and has a dropdown arrow on the right. The 'PASSWORD' field contains '12345'. The 'AUTHORITY' field is empty. At the bottom are 'OK' and 'CANCEL' buttons. On the right side of the dialog box, there are five reference numbers with lines pointing to specific fields: 8701 points to the 'NAME CODE' field, 8702 points to the 'TANAKA' box, 8703 points to the 'ICHIRO' box, 8704 points to the 'PASSWORD' field, and 8705 points to the 'AUTHORITY' field.

USER REGISTRATION [X]

NAME CODE : 12345 8701

NAME : TANAKA ICHIRO 8702

POSITION : kumitate 8703

PASSWORD : 12345 8704

AUTHORITY : 8705

OK CANCEL

FIG. 88

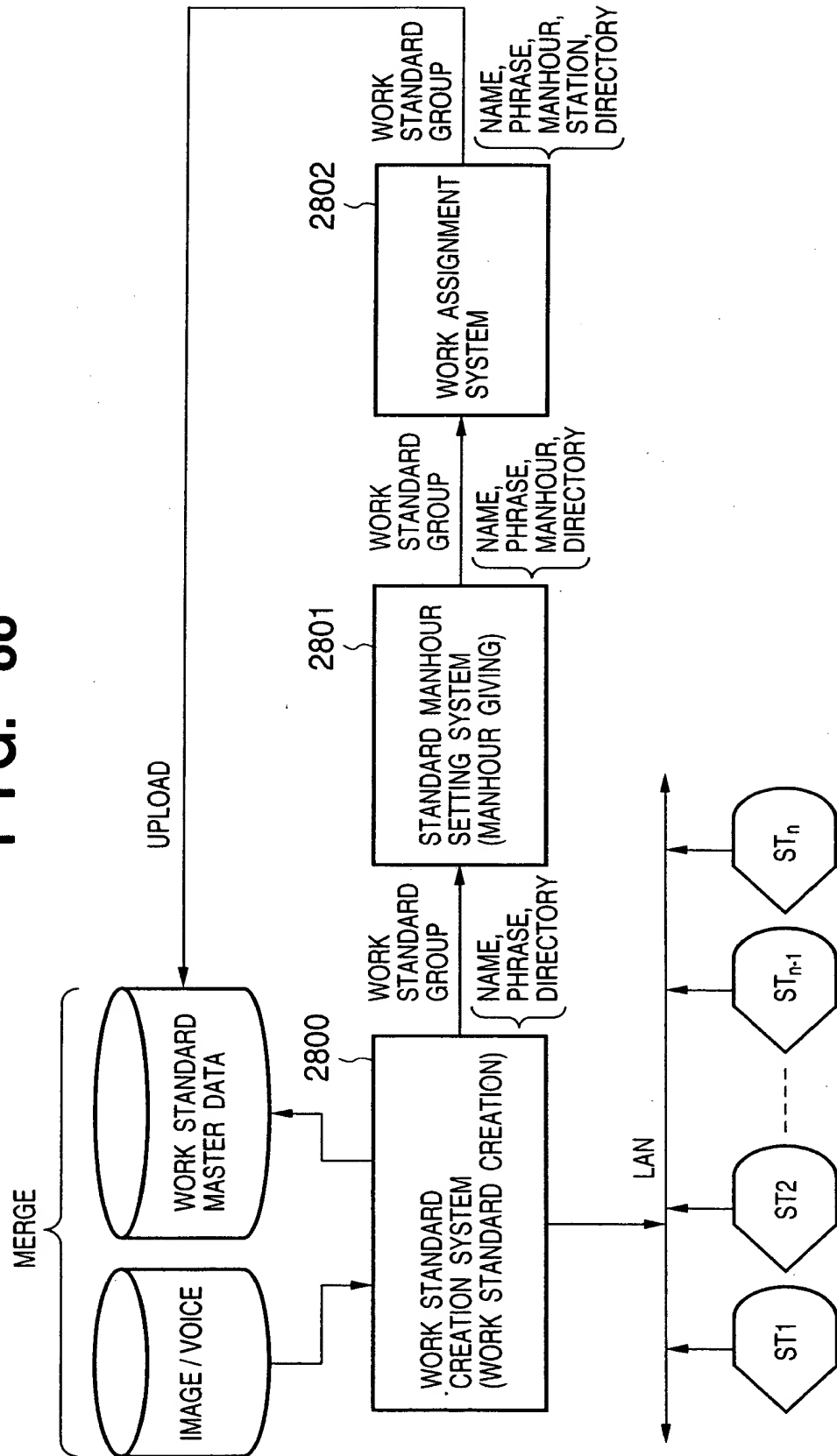


FIG. 89

DIRECTORY NAME	IMAGE DATA	OPERATION (VERB)	PARAMETER 1	PARAMETER 2	PARAMETER 3
xxxxx1	SCREW	SCREW	SCREW CLOCKWISE	DISTANCE MOVEMENT 10mm	TORQUE 10Kg.M
xxxxx2	SCREW	SCREW	SCREW CLOCKWISE	DISTANCE MOVEMENT 20mm	TORQUE 20Kg.M
xxxxx3	SCREW	SCREW	SCREW CLOCKWISE	DISTANCE MOVEMENT 20mm	TORQUE 30Kg.M
...
yyyyy1	ROTATE	ROTATE	CLOCKWISE	DISTANCE MOVEMENT 20mm	
yyyyy2	ROTATE	ROTATE	COUNTERCLOCKWISE	DISTANCE MOVEMENT 20mm	
...
zzzzzz1	OPEN	OPEN	OPEN UPWARD	DISTANCE MOVEMENT 30mm	WEIGHT 100g
zzzzzz2	OPEN	OPEN	OPEN DOWNWARD	DISTANCE MOVEMENT 40mm	WEIGHT 200g
...

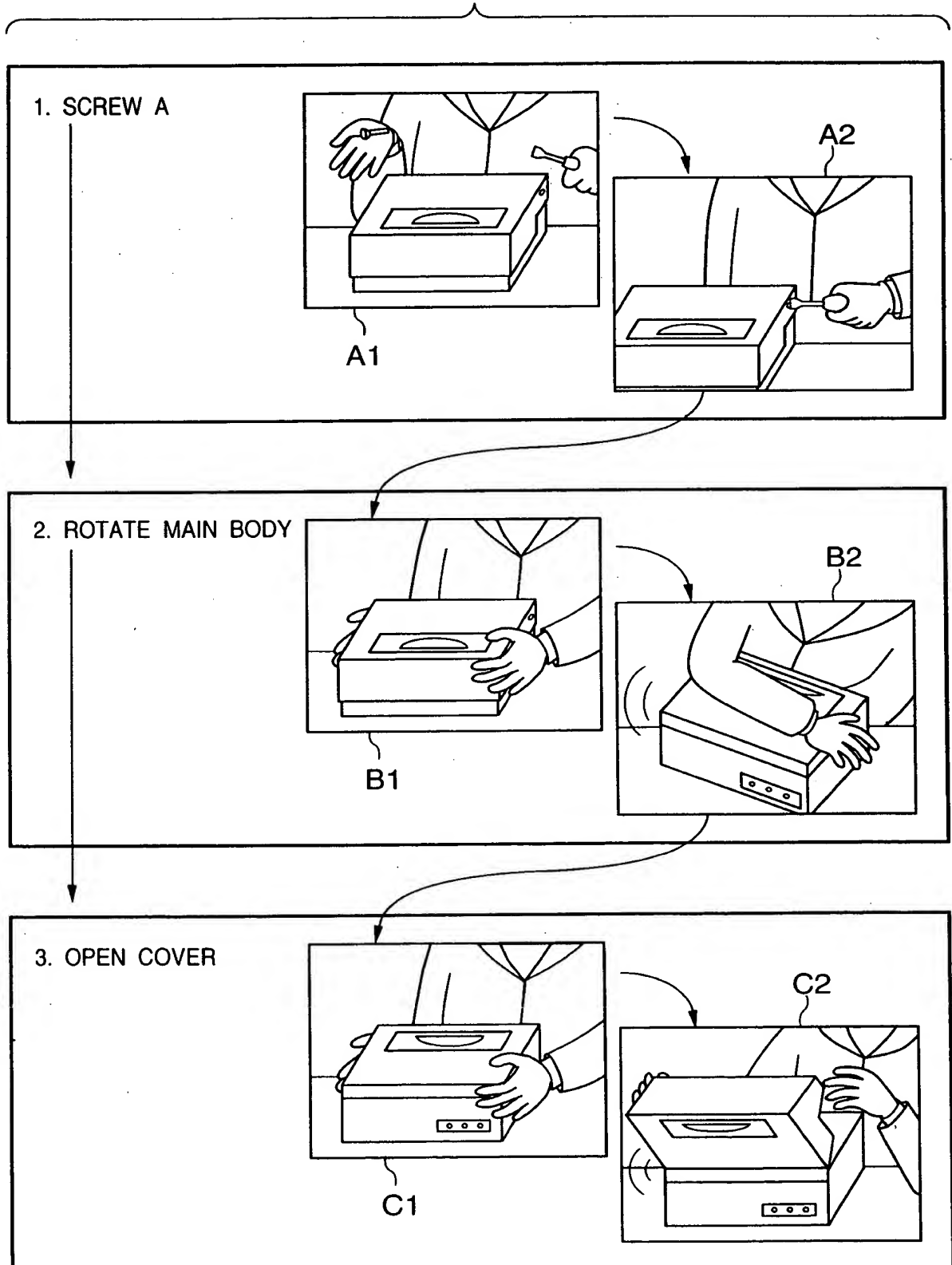
FIG. 90

FIG. 91

9101 9102

SETTING OF COMPONENT SYMBOL

PRODUCT SYMBOL : BJ - 970909

COMPONENT SYMBOL : CH

COMPONENT NAME : CHECK

OK SEARCH COMPONENT CANCEL

FIG. 92

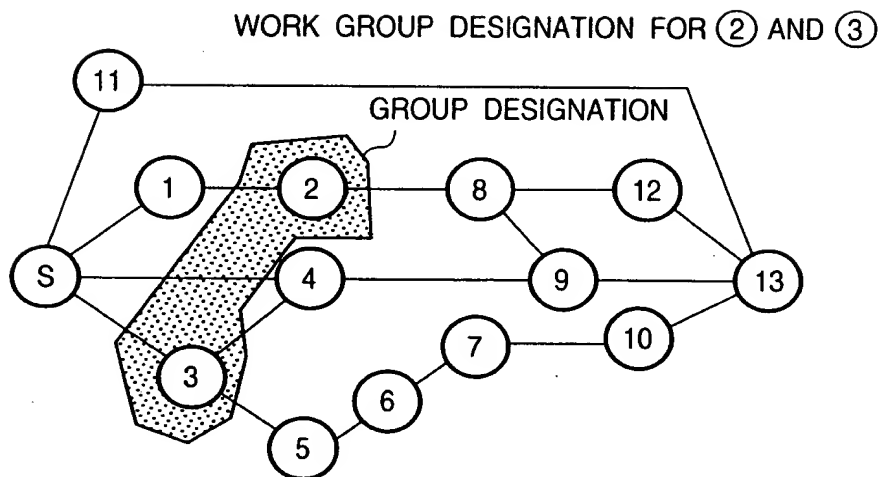


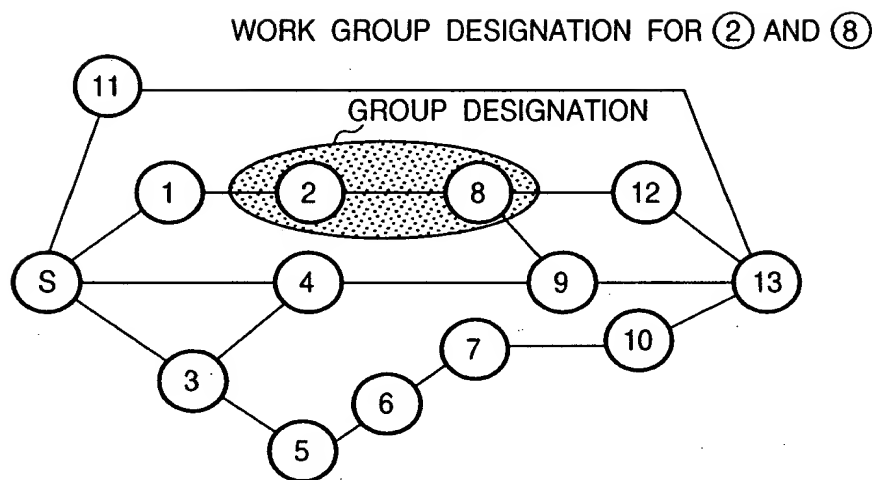
FIG. 93

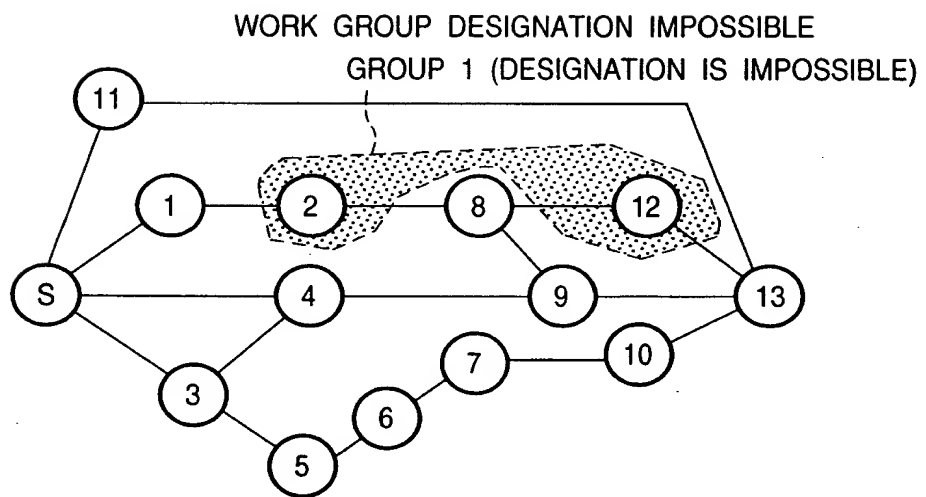
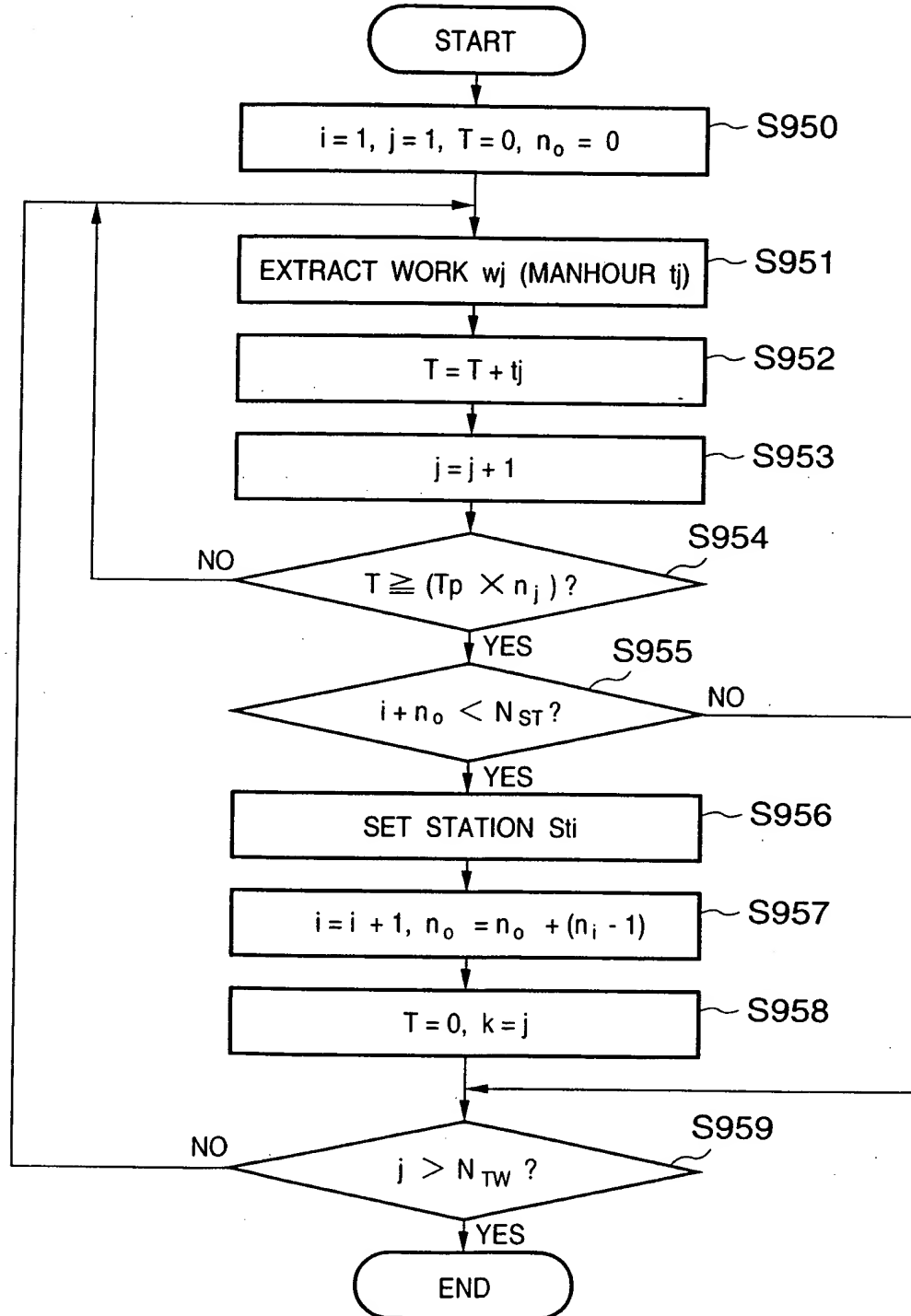
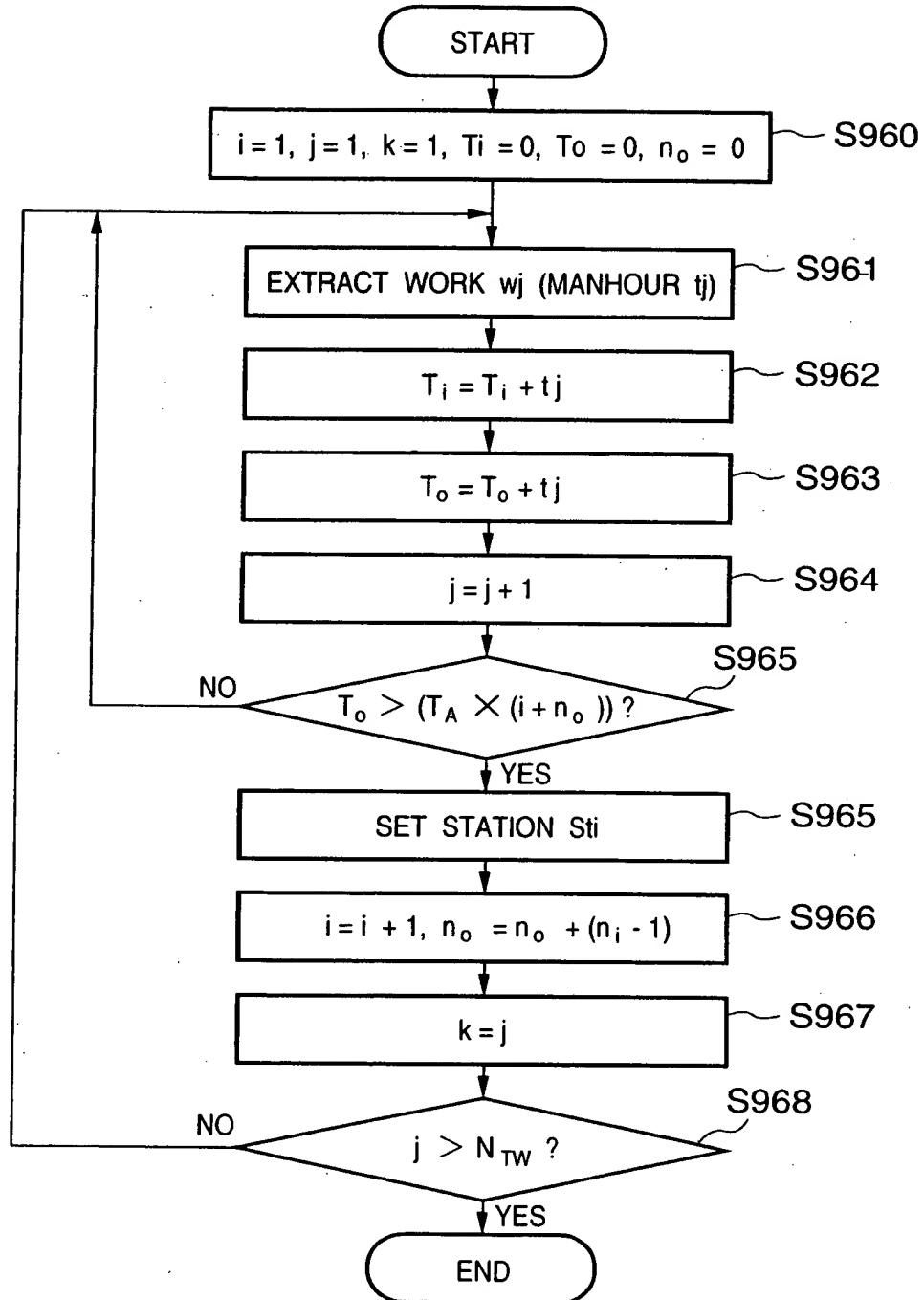
FIG. 94

FIG. 95

N_{ST} : THE NUMBER OF STATIONS
 n_i : i STATION PARALLEL NUMBER
 n_o : TOTAL ACCUMULATED PARALLEL SUM NUMBER

96/97

FIG. 96



N_{ST} : THE NUMBER OF STATIONS

T_i : i STATION MANHOUR

T_A : STATION MANHOUR AVERAGE VALUE

$T_A = WF / N_{ST}$

T_o : TOTAL ACCUMULATED MANHOUR

n_i : i STATION PARALLEL NUMBER

n_o : TOTAL ACCUMULATED PARALLEL SUM NUMBER

FIG. 97

FILE(E) EDIT(E) VIEW(D) TOOL(T)

OPERATOR 1

S11

WORK NAME	WF	PROV. SIONAL MANHOUR	MA-CHINE UAL
START	0	0	No.
UNIT WORK NAME 1	34	10	No.01
UNIT WORK NAME 2	255	46	No.02
UNIT WORK NAME 6	92	26	No.06
UNIT WORK NAME 7	52	0	No.07
UNIT WORK NAME 8	52	0	No.08
UNIT WORK NAME 9	0	36	No.09

TOTAL 585 (RU)

OPERATOR 2

S12

WORK NAME	WF	PROV. SIONAL MANHOUR	MA-CHINE UAL
UNIT WORK NAME 3	156	0	No.03
UNIT WORK NAME 4	34	0	No.04
UNIT WORK NAME 5	138	23	No.06
UNIT WORK NAME 10	71	48	No.10
UNIT WORK NAME 11	138	30	No.11
UNIT WORK NAME 12	97	20	No.12
UNIT WORK NAME 13	88	0	No.14
UNIT WORK NAME 14	46	18	No.15
UNIT WORK NAME 15	546	15	No.16
UNIT WORK NAME 17	58	20	No.17

TOTAL 1548 (RU) xxxxxx

OPERATOR 3

S13

WORK NAME	WF	PROV. SIONAL MANHOUR	MA-CHINE UAL
UNIT WORK NAME 13	30	40	No.13
UNIT WORK NAME 16	303	131	No.18

TOTAL 572 (RU)

OPERATOR 4

S14

WORK NAME	WF	PROV. SIONAL MANHOUR	MA-CHINE UAL
UNIT WORK NAME 19	84	26	No.19
UNIT WORK NAME 20	120	20	No.20
UNIT WORK NAME 21	310	66	No.21

TOTAL 6238 (RU)

OPERATOR 5

S15

WORK NAME	WF	PROV. SIONAL MANHOUR	MA-CHINE UAL
UNIT WORK NAME 22	146	71	No.22
UNIT WORK NAME 23	106	26	No.23
UNIT WORK NAME 24	61	0	No.24
UNIT WORK NAME 25	51	10	No.25
END	0	0	No.X

TOTAL 486 (RU)

OPERATOR 6

S16

WORK NAME	WF	PROV. SIONAL MANHOUR	MA-CHINE UAL
UNIT WORK NAME 22	146	71	No.22
UNIT WORK NAME 23	106	26	No.23
UNIT WORK NAME 24	61	0	No.24
UNIT WORK NAME 25	51	10	No.25
END	0	0	No.X

TOTAL 486 (RU)

PF 83.6% PARALLEL STATIONS PF 117.3%

PF 96.7%

PF 95.2%

PF 73.6%

PARALLEL STATIONS

G STANDARD NO. WORK NAME

WF MEANS MA-CHINE MANHOUR

COMPOSITION MODE: PRIORITY ORDER SCHEME

COMPOSITION EFFICIENCY 96.43%

NET COMPOSITION EFFICIENCY